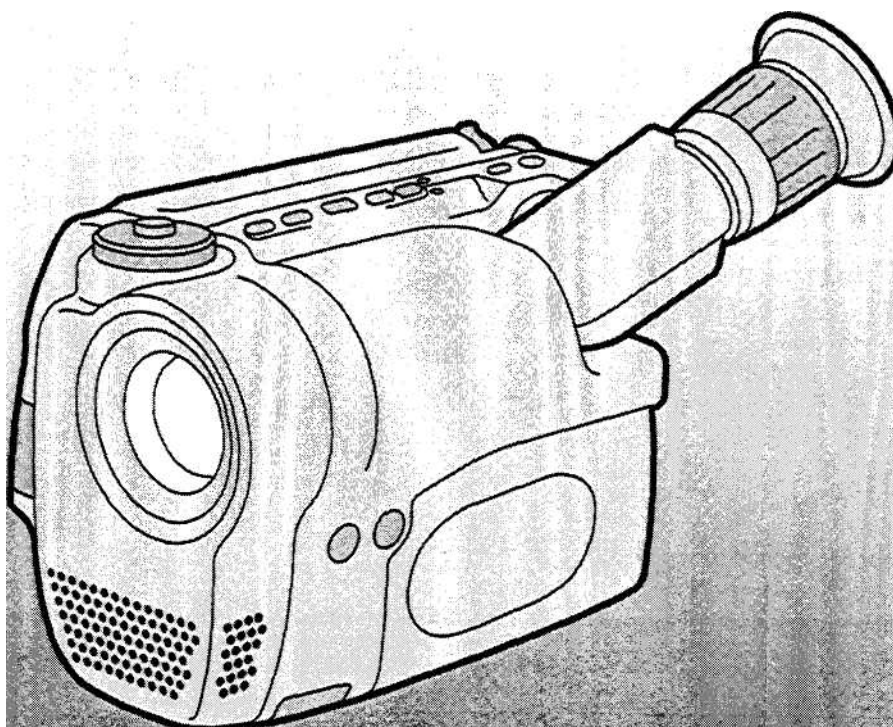


8-mm-VIDEOCAMCORDER

Operating instructions



***UC800/UC850/
UC5000/UC55***

F (PAL)

Only in certain areas available.

Consider please

CAUTION:

IN ORDER TO EXCLUDE THE RISK FROM ELECTRICAL IMPACTS, OPENING IT THE CAMCORDER HOUSING NOT. WITHIN THE EQUIPMENT THERE ARE NONE FROM THE USER TO REPAIRING PARTS. BUT IS EXCLUDING THE QUALIFIED CUSTOMER SERVICE RESPONSIBLE PERSON.

WARNING:

THE EQUIPMENT MAY DO RAINS NOR HUMIDITY FOR SAFETY REASONS NEITHER SUSPENDED.

CAUTION:

o) TO THE AVOIDANCE OF MALFUNCTIONS USING IT REQUEST
c iü EXCLUDING THE RECOMMENDED ACCESSORIES.

Congratulations on the choice of CAN on equipment E

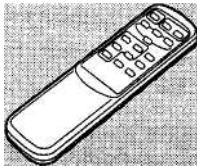
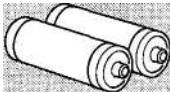
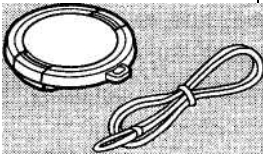
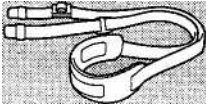
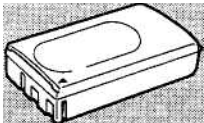

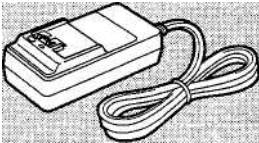
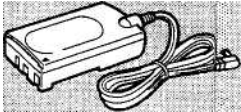
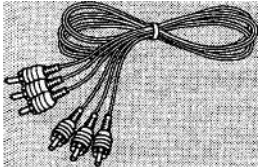
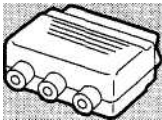
We thank you for the purchase of this Camcorders of Canon. The modern technology used in this equipment makes it extremely operation — after short time you outstanding home video receptions will already make, which prepare also after years still joy for you.

In order to use your new Camcorder optimally, you read please this operating instructions thoroughly through — it give many progressive characteristics, which can contribute to good receptions.

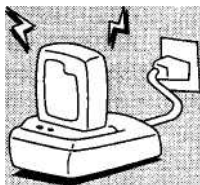
Completely at the beginning you should read the following chapters: | “Simply taking up”
“Voltage supply”
“Video cassettes” i “preparing the Camcorders”
Afterwards you can inform then about the further functions.

At the end of this guidance is an alphabetically arranged index. In addition you can look up desired controls and functions in the chapters of “technical terms” and “Sucheranzeigen”. If problems occur, you should reread fault finding” first in the chapter “.

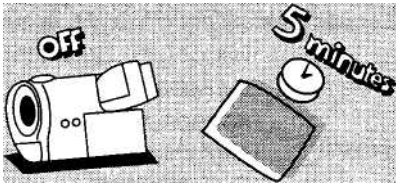
Please you make sure that the packing contains the following items:

Infrared remote maintenance WL-61 	Two batteries type R6/AA 	Objektivdeckel and objective cover cord 	Shoulder belt SS-300 
Battery luggage BP-711 	Lithium battery (CR2025) 	Compact power pack CA-R300 	DC-Kupfer DC-100 
Stereo Vfeokabel STV-150 	SCART adapter PC-A10 (Europe, Asia) 		

And during you with your Camcorder make yourselves, think you familiar of the following:



The battery luggage must be loaded, before it can



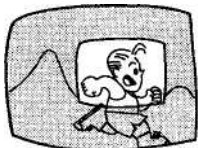
supply the Camcorder with current. Load it only

again again if it is completely unloaded.

The Camcorder switches off automatically, if you leave it longer than approx. five minutes in reception break operation, in order to prevent damage to the Videoköplen.

Conception of the Camcorders

FlexiZöne reception



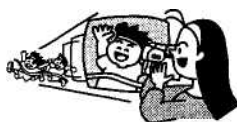
More easily than manual operation and more flexibly than mechanism functions. The new „FlexiZöne“ - system for automatic focusing/exposure represents a completely new way of the operation of a video camera.

HiFi^Stereötoh



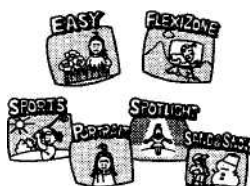
The Stereomikrofon offers depth and realism in the sound, which to the pictures voltage and effect lend. An inserted wind protection reduces wind noises to a minimum.

22fach^Zööm (2Öfach for the UC50QQ/JC55b0)



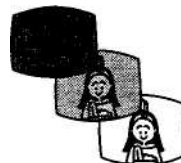
From the wide angle to unbeatable 22 the subject (twentyfold for the UC5000/UC5500) - Tele — this high performance CAN on objective takes each desired reception to the children's game.

High performance reception programs



Six exposure mechanism programs come to meet the most diverse reception situations.

/Fading out



If you add your receptions by gentle in and fading out, synchronizes a sensitive Touch with that tone-purely, in addition.

Optical vertical image control (UC800/UG850)



Canons revolutionary Variowinkel prism also still stabilizes the reception in the largest Teleeeinstellung. Differently than with usual electronic stabilization circuits no loss in the image quality develops.

Insert from titles



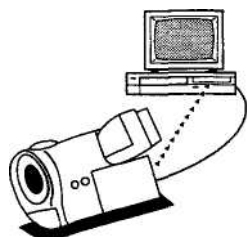
They do not need to attach add-on modules, around your home videos call — the Camcorder can everything alone.

Remote control



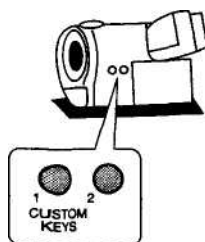
With the provided infrared remote maintenance you can steer the Camcorder out up to 5 m distance. Thus completely vibrationless receptions and relaxed play-back become possible.

Automatic cut function



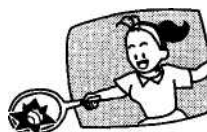
This Camcorder is equipped with a complete number of inserted cut functions. Now effective and practical cutting without expensive separate cut desks is possible.

User keys (Custom key)



With singular, freely provable, user keys can decide you, which functions they always immediately to have wanted. Occupy these keys with the functions, which need you most frequently, so that these are available immediately on depressing the key.

Manual Versch I u sszeiten



Use the creative possibilities of eight different fast verschlusszeiten. With 1/10000 s you can hold also the fastest Action.

Farbsucher (UC850/UC5500)



A very high resolution Farbsucher helps you to catch impressive scenes.

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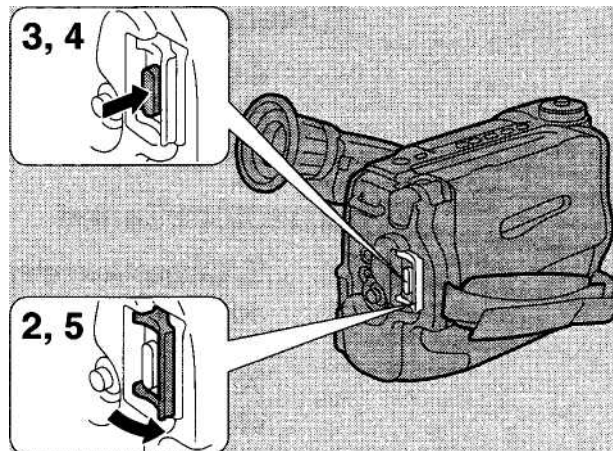
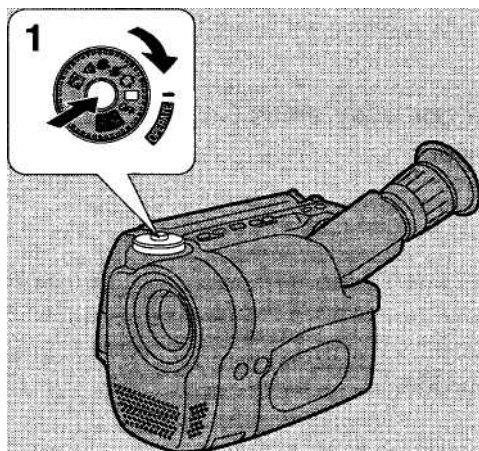
Cuts

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Simply taking up



Before would take up

Do not forget the following:

- Attach a source of working current (P. 7)
- Insert a video cassette (P. 11)
- Stop the Suchers, a fastening of the Belt and removing of the Objektivdeckels (P. 12) seized.

Begin the back-up battery (P. 10), in order to receive the date and time indicator (P. 21).

Take on

1. The Programmwähler to ☐ switch.

- The Camcorder release key pressed hold and ☐ place.
- Thus the program becomes "simple one Reception" of the Camcorders selected. This Program permits it, the camera simply up to reset the desired motive and to loose-film, without itself around attitudes care to have.

2. The STANDBY cover open.

- The Camcorder operational status indicator shines red up, and the display BREAK appears in Sucher — the Camcorder now is in "Reception break operation".

3. The Start/Stop pushbutton press, around those To start reception.

- The reception pilot lamp flashes fast, and REC appears in the Sucher.

4. The Start/Stop pushbutton reprints again, to interrupt the reception.

- The Camcorder switches to reception break, and BREAK appears again in the Sucher.
- The reception can through pressures the start/Stop button as often as desired interrupted become.

- The Camcorder switches off from alone, if it longer than approx. 5 minutes in Reception break operation is left. Over on reception break operation to shift back, the STANDBY cover close and again open, or that Programmwähler on OFF and then back place on ☐.

5. The STANDBY cover close.

- So long the Programmwähler on Reception program is posed, can those STANDBY cover to the in and Switch off the Camcorders used become. Thus battery power can saved become, and inadvertent operation of the Start/Stop pushbutton is prevented.

After the reception

- The Objektivdeckel put on.
- The video cassette take.
- The Programmwähler on OFF place.
- The auxiliary power supply disconnect.

Notes:

- If the Camcorder with the STANDBY Cover is switched off, remains those adjusted values for focusing and Exposure in the FlexiZone Aufnahmeprogramm (see page 24) stored, just like possible title displays. If that Programmwähler from the position CAMERA, become these attitudes are moved out the memory reset.
- They can do one (or both) the Custom K^y User keys in such a way program that it as additional Start/Stop pushbutton functions. (To details see page 20). This particularly is practically with reception out lower Perspective, if e.g. the camera at the H üfte one holds.
- Before an important reception those should

Voltage supply

Before the operation of the Camcorders you must use the power pack, over:

**the line current connection over one
To manufacture plug socket
or
to load a battery luggage.**

Notes:

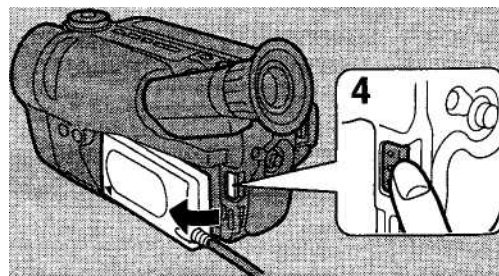
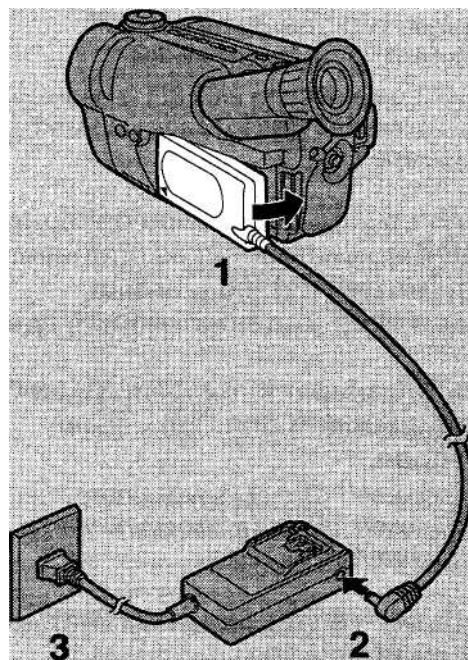
- The power pack changes line current of one Convenience outlet (100 to 240 V alternating current, 50/60 Hertz) in 6 V direct current over, as to operation the Camcorders needs.
- If the power pack beside a television, can it is used interferences with — Increase you cause television reception the distance between power pack and television or antenna cables.

Connector of the Camcorders to a convenience outlet

Use the compact power pack and the Gleichstromkuppler, in order to operate the Camcorder over line current.

1. **The Gleichstromkuppler into that Current supply subject of the Camcorders put.**
 - With the front first push in and press in slightly, to be with an audible Clicking noise engages.
2. **The Gleichstromkuppler to the power pack attach.**
3. **The power supply plug into a plug socket put.**
4. **The Gleichstromkuppler after that Use again remove.**

- The BATTERY EJECT key presses and hold, during the Gleichstromkuppler take off with the back outward.
- Before disconnecting the current supply always switch the Camcorder off.

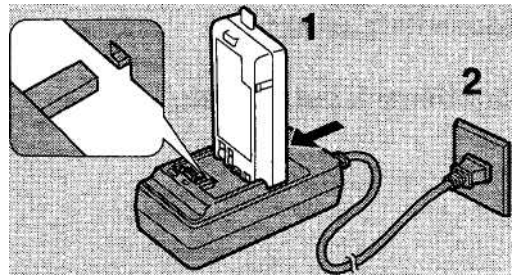


Shop and attachment of the battery luggage

They must load the battery luggage, before you can use it. A again bought battery luggage must be charged before the use twice.

1. The battery luggage as shown into that Power pack plug in.

- Guarantee that the Gleichstromkuppler is not attached.

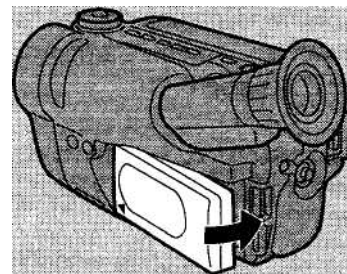


2. The power supply plug to a plug socket attach.

- The red load small lamp LOAD/REFRESH it flashes, in order to indicate that the loading procedure runs off.

3. Control rooms, until the battery luggage is completely loaded.

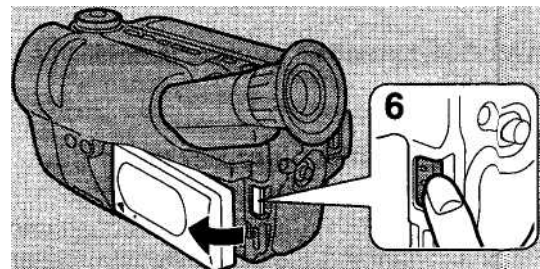
- The load small lamp shines continuously in Red, if the battery luggage completely is loaded.



4. If it itself around a again bought Battery luggage negotiates, it once take to the power pack, again push in and again charge.

5. The battery luggage from the power pack take and in the Camcorder push.

- Push in (triangle marking first) and imprint, to it with an audible Clicking noise engages.



6. After the use the battery luggage decrease again.

- The BATTERY EJECT key presses and hold, during the battery luggage after take off in the back.
- Before disconnecting the current supply always switch the Camcorder off.

**Charging
and
recording
times**

**Battery
luggage
BP-711**

Loading time		70 Minutes
Continuous one	UC800/UC850	45 Minutes
Recording time	UC5000/UC5500	65 Minutes

> these numerical data vary — are most surely it to always doubly or keep ready three times so many battery luggage as one presumably needs.

NOTE FOR CUSTOMERS IN EUROPEAN

**MUST RECYCLE OR
APPROPRIATE DISPOSE.**



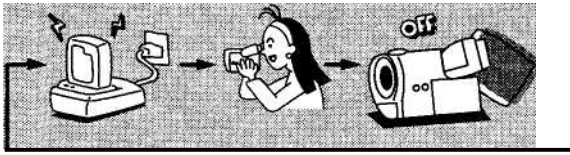
Cd

**HINWEIS FOR CUSTOMERS IN [BY
SWITZERLAND**

Return after use of the sales
office.

Over the battery luggage

load then take up to unloaded



The battery luggage before the use load...

- Before the first use that should Battery luggage to be twice loaded — one individual charge is not sufficient. Charge it once completely on (to the load small lamp continuously), separates you it shines once from the unit load device off and you charge it again up. Normally is not the battery luggage “doubly” to be charged.
- The battery luggage unloads itself constantly slowly, also with nonusage. Therefore you should it on the day or at the Vortag of the reception load.
- The battery luggage heats up with operation (and when loading). Wait before loading or the renewed use, to it itself cooled down.

... when taking up current save...

- They get longer recording time from that Battery luggage, if the Camcorder between individual reception scenes switched off and not in break operation one leaves.
- At low temperatures those takes Battery strength and thus the reception duration off. Battery luggage can in one Temperature range from 0°C to 40°C uses become, but they work best Temperatures between 10°C and 30°C.

... load and only then again if it is completely exhausted.

- The cSp Wamanzeige of the Camcorders flashes, if the battery luggage is nearly exhausted. After some further operation minutes switches that Camcorder automatically out. They can do that Battery luggage then either again stow away or load.

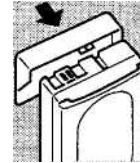
Disconnect the battery luggage with nonusage.

- Also in switched off status that takes Camcorder constantly a small quantity current from the battery luggage up. That means that that Slowly and its constantly unload battery luggage Strength finally under to operation necessary value drops, so long it in Camcorder remains assigned.

CAUTION!

The contacts cleanings

- Camcorder, adapter or battery luggage do not function correctly, if the contacts are dirty. Before the use examine, and with a dry rag or Paper handkerchief clean-wipe, if necessarily.



Always put the cover on of the battery luggage.

Never the clamps of the battery luggage also Metallgegenstände affect. The electrical Charge of the battery luggage is very large, and if it is short circuit, those exists Danger of fires.

The cover always touch down, if the battery luggage not one uses.

The battery luggage always carefully treat.

- Always from fire keep away (danger of explosion).
- To never open or modify try.
- Do not drop or hard knock against.
- Protect against wetness.

Remember, the recording time can diminish...

- if the battery luggage were loaded, before it was completely unloaded.
- if it longer than one week long in Camcorder (or the video light) one left attached.
- if it three months or longer does not use is.

... however one can “refurbish” the battery luggage also again.

- The power pack has one “refurbishes” - function, with that battery luggage on full power to be returned can (P. 10).
- If by it the power of the battery luggage , has it is not repaired its Life span reached and must be replaced.

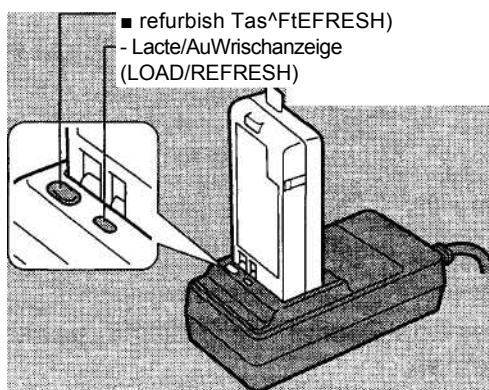
A

Life span of never-CD-Batteriepacks

- Never-CD-Batteriepacks produce electrical Energy with a chemical reaction, so that they to be loaded cannot, but keep unlimited. Even if it not , leaves the power in the run that is used Time after. Even if the battery luggage after “refurbishing” becomes fast again weak, it has the end of its life span erreicM and should be replaced.
- If it is not used, that should Battery luggage every six months once fully to be charged and again unloaded.

3 5'
D

Refurbish the battery luggage



If the recording time ordered by the battery luggage diminishes, use the refurbishing function of the power pack, in order to return the battery luggage again for full power. The power pack unloads the battery luggage first completely and charges it again to it up.

1. The battery luggage into the power pack use, and the power pack to one Plug socket attach.

- See P. 8

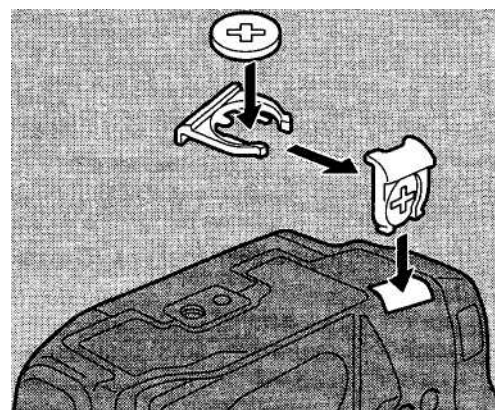
2. The REFRESH key press.

- The LOAD/REFRESH display flashes in Green, in order to indicate that that Discharge process runs off. If that Battery luggage is unloaded, begins the display to flash in red, and the loading procedure begins.

3. The battery luggage take, as soon as the unloading/loading procedure terminates is.

- The display shines continuously in red, if the loading procedure is terminated.
- If the battery luggage to be only unloaded is, it is not necessary, the power pack to plug in. In this case that can Battery luggage to be taken, if those LOAD/REFRESH display stops, in green to flash.

Begin the back-up battery



The battery support pull out, and the CR2025-Lithiumbatterie with + the marking as indicated insert. The retainer again up to engaging push in.

- A small screwdriver can be useful for prying off battery the retainer.

By the back-up battery the Camcorder stores the date, the time and other attitudes even if the auxiliary power supply is interrupted. The battery has one life span of approx. one year.

If the battery must be exchanged (or is not inserted), flashes the ^-marking in the Sucher. Manufacture with the exchange of an old battery always first the auxiliary power supply of the Camcorders and the equipment then with the STANDBY cover switch off. In this way the existing attitudes remain retained.

WARNING!

This battery type can cause a fire or a chemical Verätzung with incorrect application. The battery in no case charge, take apart, over 100° heat up or burn. For the change only use a Panasonic CR2025, Sanyo CR2025, Sony CR2025 or Duracell DL2025B. Perhaps in the case of use of another battery fire or danger of explosion exists. The old battery should be returned for disposal to the dealer.

Reception and loading times

Battery luggage	BP-711	BP-729
Unloaded	4 Hr.	10 Hr.
Load	1 Hr. 1 Min.	2 Hr. 3 Min.

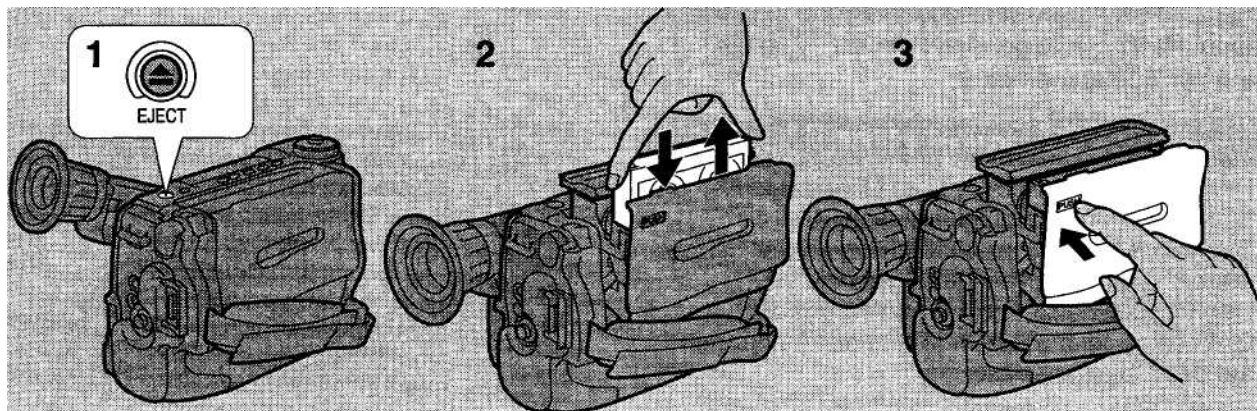
	0	0
Total refurbishing time	5 Hr. 1 Min.	12 Hr. 3 Min.
	0	0

The numerical data are approximate values.

Note:

- Do not seize the battery with tweezers or another metallic tool, there it is otherwise short circuit.
- Wipe the battery with a clean, dry cloth off, around good battery contact too ensure.
- Batteries do not belong into child hands — Inadvertent swallowing one >^rzt immediately visit. The sheath can resolve itself, and the chemicals inside the battery can stomach and intestines damage with difficulty.
- Batteries do not open, heat up, or in water dive in. With inappropriate treatment danger of explosion exists.

Video cassettes



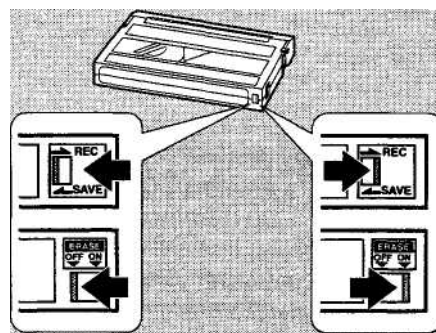
Use only video cassettes with identification 0.

Delete protection

Insert and infer

Video cassettes can be inserted and/or taken also with switched off camera, as long as the Camcorder is supplied with current.

1. The EJECTA ± - key (cartridge ejection) **press and wait, to itself that Cartridge subject opens.**
2. The video cassette insert/take.
 - The video cassette carefully with the window insert outward pointing.
 - When taking the video cassette straight pull out upward.
3. **(PDSH) - marking to Cartridge specialized covers press, to it a clicking noise engages. That Upper section of the cartridge subject becomes automatically drawn in.**
 - Never on upper section of the cartridge subject press.



In order to avoid the inadvertent resetting of a video cassette already taped, bringan it the red slidegate valve at the cartridge into the position, where the opening is taken off. (This switching position is normally characterized as "SAVE" or "ERASE OFF"). If this cartridge is inserted, the display flashes @\$ in Sucher, if the Programmwähler on Aufnatime of a program will if posed you tape, place the same video cassette again more woller you the slidegate valve back into the position, where the opening is free. (This switching position is normally characterized as "REC" or "ERASE ON").

Notes:

- For best results no cartridges should of the Type uses Hi8 with this Camcorder become.
- The cartridge subject with the automatic Closing procedure do not obstruct.
- After inserting a video cassette those Search function use, around the desired Starting point for the reception to visit (sees P. 30).
- The video cassette not after the Verwenduig in Camcorder leave inserted — into the covering

Preparation of the Camcorders

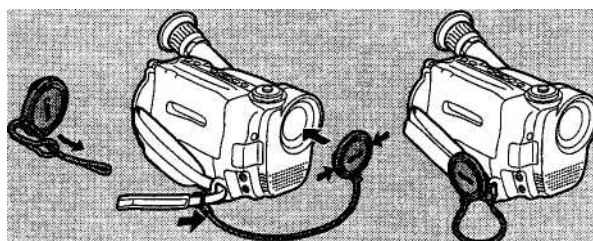
Now you should have attached voltage supply and insert a video cassette. After the following steps you are then ready for the reception.

The Objektivdeckel attach

The cord by the eye at the Objektivdeckel lead, as shown in the illustration.

The Handschlaufe by the ring at the cord lead, as shown in the illustration.

The Objektivdeckel with the reception to Grasp belts festhaken and after the reception set on the objective.



The grasp belt adjust

The bur-fastener take off. The Camcorder with the right hand hold and the belt with the left hand adjust.

The Sucher adjust

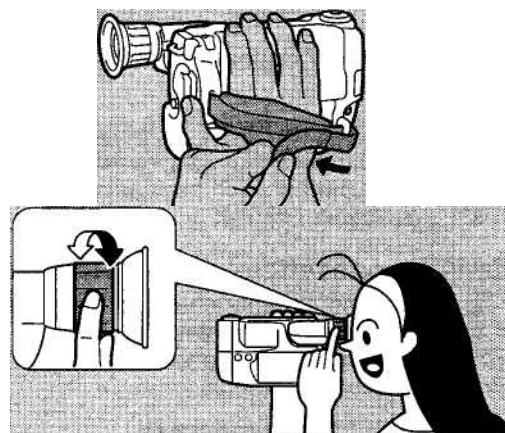
- Place to the Sucher according to their Eyes. First you set up to the Camcorder Reception break operation. (The Programmwähler on a reception program, and those place STANDBY cover open.)

UC800/UC5000

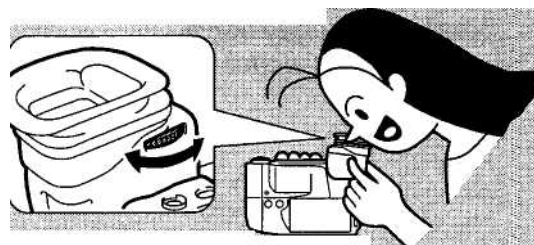
- Place to the Sucher according to your eye . In addition the search he focusing ring becomes turned, until the Sucheranzeige sharply too identify is.
- The Sucher is moveable around 90°, around more Liberty with the choice of the reception position too offer.

UC850/UC5500

- Switch on for the Camcorder. Fold highly, and you turn the Sucher then to Search he Sucharfeinstellrad, until those Sucheranzeigen clear and clear to see simmers.
- The Sucher is moveable around 90°, around more Liberty with the choice of the reception position too offer.



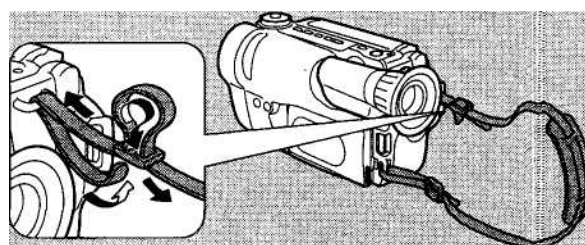
UC800/UC5000



UC850/UC5500

The shoulder belt attach

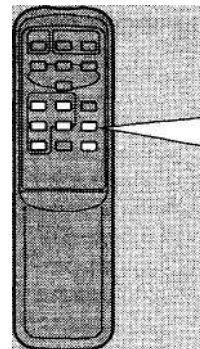
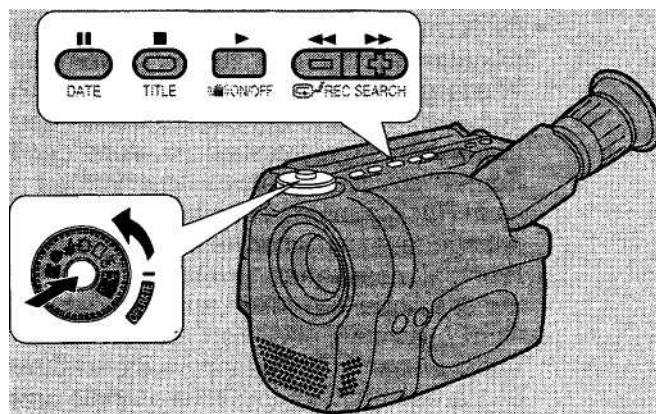
- For better security and mobility that can Shoulder belt to be attached.
- The ends of the belt by the retaining eyes lead and the length stop, as in that Illustration shown.
- Examine the attachment for safe stop.



Note:

- The Sucher the bright sunlight do not suspend, since it can melt otherwise. (The light is bundled

Play-back



The Suchermonitor can be used for immediate play-back after the reception. To the play-back on a television see P. 14. For the use of the infrared remote maintenance see P. 18.

1. A Betriebsstromquelle attach, and the program voter on PLAY place.

- The operational status indicator lights up in green.

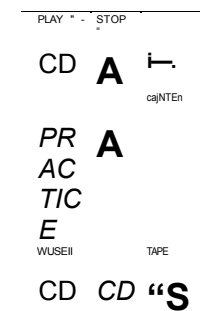
2. The video cassette insert.

3. ► - key press, around those To start play-back.

- To terminating the play-back ■ - the key press.

drying.

Special play-back functions:



High-speed search

In order to see the play-back picture with for instance the fifteenfold normal velocity and

forward-winding. In order to see the play-back picture with for instance the fifteenfold normal velocity in backwards direction, and hold you press - the 4^Taste when normal rewinding.

Tape return

Use the TAPE RETURN key at the remote maintenance, in order to go back fast to a desired scene:

1. The COUNTER RESET key with that Play-back in the desired position press.

- The tape counter becomes on 0:00:00 reset.

5
5"
0

2. After the play-back the TAPE RETURN key press.

- The tape is rewound to the position, where the counter display 0:00:00 is.
- The tape return can through pressures that **Stop B key** to be waived.

3. The play-back start.

Fixed image play-back

For freezing the play-back picture you press the **IL key**. Press the key again, or you press ► - the key, in order to continue the normal play-back. After approximately five minutes in fixed image operation the Camcorder switches automatically to stop operation.

Quick-motion apparatus play-back

In order to see the play-back picture with for instance the 9fachen normal velocity, you press ► - **the key** during the normal play-back and keep them pressed.

Quick-motion apparatus of kind of rear wall

In order to see the play-back picture with for instance the 7fold normal velocity in backwards direction, you press < * - the key during the normal play-back and keep them pressed.

Notes:

- During the special play-back appear several noise bars in the picture, and comes no tone. Certain televisions show with that special play-back functions the pictures in Black-and-white, or the pictures run or are cut.
- In fixed image operation the picture flickers, and fast action scenes can blurred its.
- The tape counter becomes automatically reset, if a cartridge eingeleget becomes.

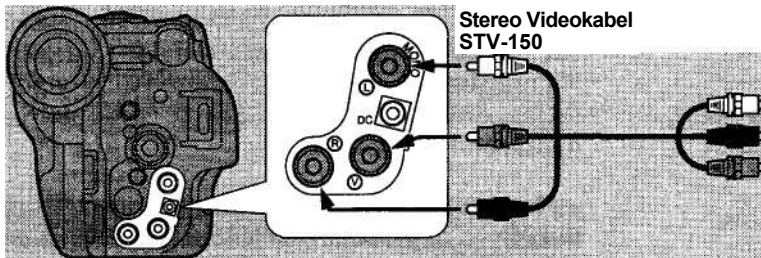
Connector to the play-back

The Camcorder can be attached to the play-back to a television or a video recorder. The Camcorder must be attached to an auxiliary power supply (see P. 7).

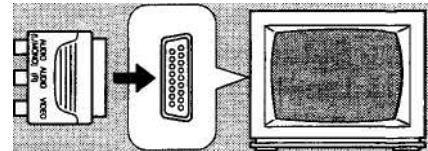
Notes:

- Remember, the television first up to adjust low volume, if it of Play-back operation on reception or break switch, during the Camcorder to that Television is attached. If the tone of Television is taken up by the microphone, feedback can appear, itself as unpleasant, loud howling tone makes bemerkbar.
- If mono output is wished, to close It the cable at the left audio output © of the Camcorders on, but not at the right Audio output ®. Thus a combined becomes Signal of the right and left channel produces.

Television set (or video recorders) with SCART buchse



SCART adapter
PC-A10



The SCART adapter PC-A10 to the SCART buchse of the television or video recorder attach.

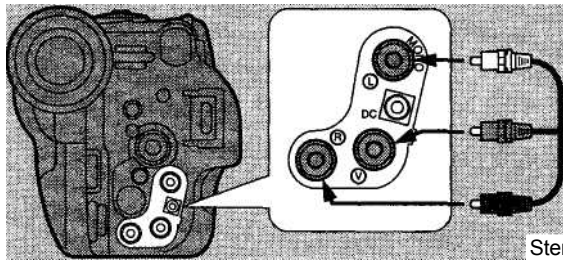
The Camcorder to the adapter attach.

- Attach the Camcorder with the Stereo video cable STV-150. Attach the white plug to the white audio socket © (left). Attach the red plug to the red audio socket ® (right). Attach the yellow plug to the yellow video socket ®.

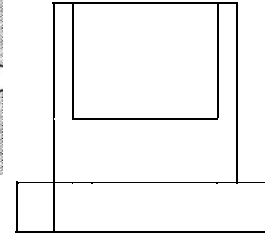
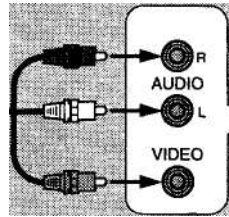
3. Place Eingangswahlschalter during connector to a video recorder its on "LINE".

- To details see operating instructions of the television/video recorder.

Television set (or video recorders) with audio/video input sockets



Stereo Videokabel STV-150



1. The Camcorder to the television set (or the video recorder) attach.

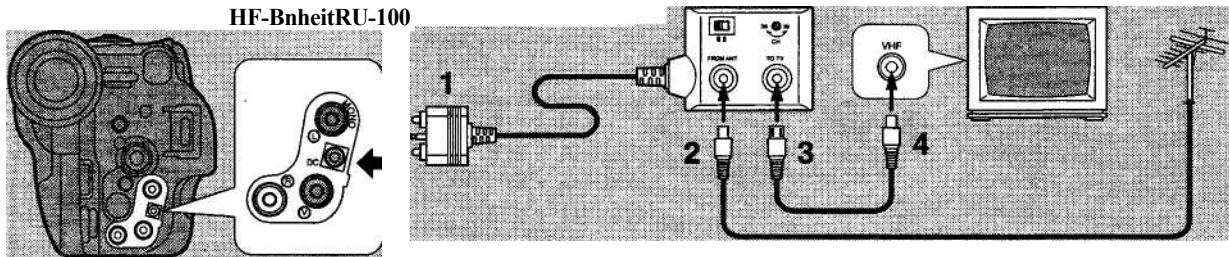
- Use the Stereo Videokabel STV-150 for the Anschluss. The white plug to the white audio socket © (left) attach. The red plug to the red audio socket ® (right) attach. The yellow plug to the yellow video socket ® attach.

2. The TV/video selector switch to Television set on “VIDEO” place.

3. Place Eingangswahlschalter during connector to a video recorder its on “LINE”.

- To details see operating instructions of the television/video recorder.

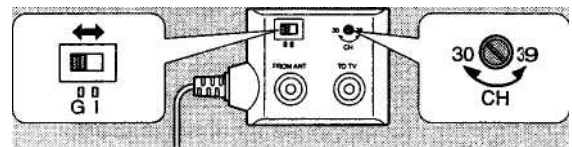
If the television does not have audio/video input sockets



If the Femseher is attached to a video recorder already, you can attach the Camcorder to the video recorder in place of the television. Follow the instructions on page 14 and/or 15.

For the direct connector of the Camcorders to a television without audio/video sockets you need the HF-unit RU-100 available as option. The tone is shown thereby in mono.

Adju



As video channel a channel is selected, which is not occupied by a television station in your populated area and therefore for the cartridge play-back can be used.

Stop first the G/I-voter of the HF-unit.

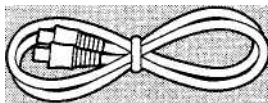
- Set in Continental Europe to G.
- In Great Britain, South Africa and Hong Kong on I place.

If this voter is incorrectly adjusted, the video picture, but no tone appears.

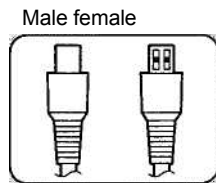
Next the television and the channel selector at the HF-unit on the video channel place factory-installed is adjusted the voter to channel 32. Tricks, until the picture is sharp.

Connector of the HF-unit

a>



Coaxial cable with DIN Steckvertwncem



E
O

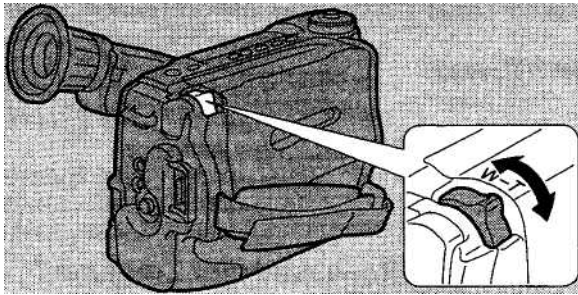
1. The HF-unit at the Camcorder **attach.**
2. The antenna cable at FROM No. on **the HF-unit attach.**
3. The "female" DIN plug to **Coaxial cable to the socket TON of TV on the HF-unit attach.**
4. The "male" plug to that **Antenna input at the television attach.**
5. Switch the television on, and **start the play-back with that Camcorder.**
 - To details to the play-back see P. 13.
6. **Both the television and the HF Unit to the video channel stop.**

Note:

- The Camcorder switch off or from the K refinement disconnect, around television broadcasts ju regard. If the Camcorder is left

switched on, the HF-unit selects automatically the camera signal in place of the Sendesign a^.

Zoom



Heranzoomen

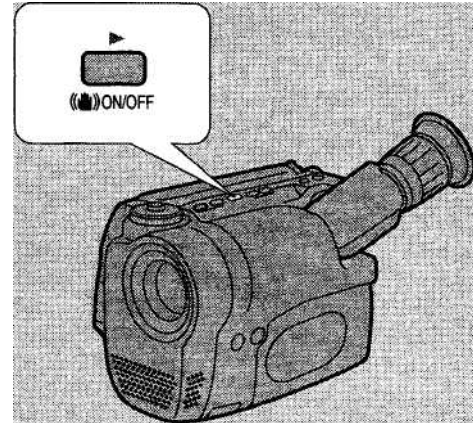


W

Way zoom - * -

T

Vertical image control (UC800/UC850)



The zoom of the Camcorders permits it to select the best picture angle for each motive.

- Press CR branch, over into that Wide angle range to zoom.
- Press the T-key, over into the Telebereich to zoom.

They can steer also the zoom shot speed:

- The automatic controller easily operate, over slowly too zoom.
- The automatic controller more strongly operate, around faster too zoom. (The further the automatic controller is moved, the faster the zoom function works.)

The keys T and W at the remote maintenance regulate the picture angle, but not the zoom shot speed:

- Press W, in order to change over to wide angles (away zoom).
- Press T, in order to change over to Tele (near zoom).

Sucheranzeigen

Heranzoomen

Way zoom

Firmly

Bo

The optical vertical image control of the UC800/UC850 makes it possible to obtain also with 22facher enlargement still stable pictures. Differently than with usual electronic stabilization circuits no loss in the image quality develops. Optical stabilization can be able to do a number of different camera movements to adjust — you also from a driving auto still good receptions to make.

For switching of the vertical image control on and/or off you press before beginning of reception ((•)) ON/off key.

- During activated vertical image control is the indication ((J!)) to see for confirmation in the Sucher.
- The optical picture stabilizer can do also with that Custom key user keys in and are switched off. To details see side 20.

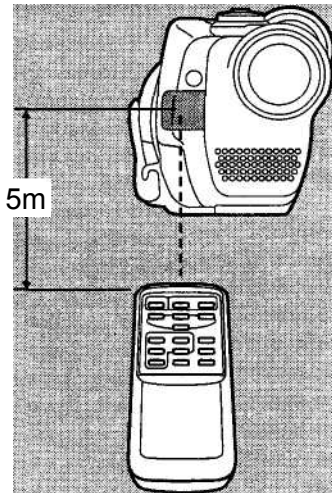
Notes:

- By to frequent zoom those become Receptions too jerkily. It is fundamental advisable, the zoom function only economically to begin, or mainly for transitions between scenes.
- All the as close as possible to the motive to near-happen, you leave the Zoomeinstellung on wide angles. They know thereby a motive focus, which is far distant for only 1 cm.

For the UC800/UC850

- Stabilization switch off, if that Camcorder on a stand is installed.
- When filming with the program "easy one Reception " becomes the vertical image control automatically connected (see page 24).
- The vertical image control compensates normal

Infrared remote maintenance

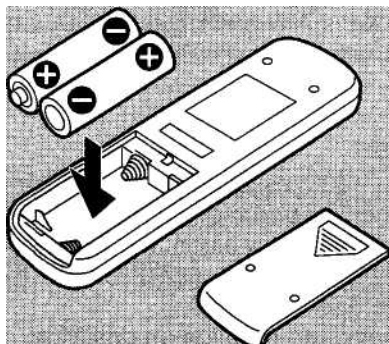


The infrared remote maintenance permits controlling of the Camcorders from a distance of up to 5 meters. Direct the remote maintenance part toward the infrared sensor of the Camcorders, while you operate the operating keys. The reception control light communicates to you whether the Camcorder is in the angle of photography and responds to operating procedural statements.

There are two functions, which only over remote maintenance those to become steered to be able:

- Tape return (P. 13)
- Screen Sucheranzeigen (P. 50)

Insert the batteries



The two batteries of the type R6 (AA) according to identifications © and to i the battery box put. Insert the batteries with wrong polarity in no case.

Switch off the infrared sensor

... * ... " " .

(see page 19)

► SENSOR

OFF

They can switch the remote maintenance sensor off, in order to prevent when filming in the proximity of other Canon Camcorder with remote maintenance that your equipment responds to their infrared signals.

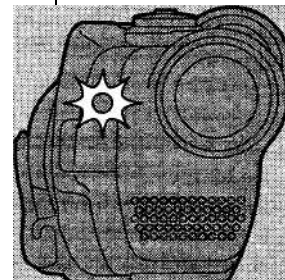
1. A menu open, and the pointer up **SENSOR reset.**
2. And those select the attitude "OFF" **Menu indication reset.**
 - "S ESä" is indicated for confirmation in the Sucher.

Switch off the control light

<= "ehG page 19)

► TALLY

OFF



The control light indicates under normal conditions, da3 of the Camcorder takes up. Flashing the light can be reflected however with close-ups as well as when filming by a windowpane into the objective and disturbed the reception.

1. The reception menu call and that **Arrow to "TALLY" induce.**
2. The Einstellungs "OFF" selects and those **Menu indication reset.**
 - The control light does not flash now any longer during the reception, confirms that Reception of remote maintenance signals jsdoch further by short blinking.
 - T EBB "becomes the confirmation in search indicated.

Notes:

- If sunlight or art light on that Infrared sensor falls, can correct reception disturbed by control signals and those

- With the battery always both battery rises at the same time exchange.
- lie-let. also with the Custom key user keys in and to be switched off. Details i Page 20.

- The infrared

Use of the menus

The menus of the Camcorders activate a number of advanced functions. Under the indicated page number you find indicated to detaillierte information for function.

The menu "Camera" (reception)

If the Camcorder is in reception break operation, press the menu key at the back of the Camcorders.

MENU
- CUSTOM KEY INFO-ON ► CUSTOM KEY
© 1... FADE CUSTOM KEY 2 " - BLC
SENSOR ON — ■
- TALLY ON CD
SHUTTER 10000
® - AUTO FOCUS ON -
FLEXIZONE CONT.>-t-
- AUTO DATE 12:00 AT the
31.JAN.1997

©Information to user keys Custom key P. 20

- ©Funktion user key Custom key 1 P. 20
- ©Funktion user key Custom key 2 P. 20
- ©Infrarotsensor
- ©Aufnahme control light
- ©Verschlusszeit P. 18
- © focus mode (manually/automatically) P. 18
- ® FlexiZone Steuerwinkel © P. 29

Datumsanzeige P. 26, 27
P. 26 P.

Daä menu "Playback' {play-back)

If the Programmwähler is posed on PLAY, press the menu key at the back of the Camcorders.

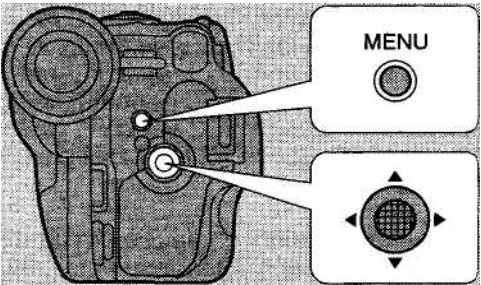
MENU
- CUSTOM KEY INFO-ON
© ► CUSTOM KEY 1---.FADE
- CUSTOM KEY 2----BLC
(D SENSOR ON — —©

- ©Information to user keys Custom key P. 20
- ©Funktion user key Custom key 1 P. 20
- ©Funktion user key Custom key 2 P. 20
- ©Infrarotsensor P. 18

The menu "Editing" (cuts)

If the Programmwähler is posed on EDIT, press the menu key at the back of the Camcorders.

MENU
© - RECORDER SELECT-1-A
► CUT-IN ADJUST ...-1.5
- CUT-OUT ADJUST...+0.B
SENSOR ON — ■ ®
©Recorder choice ©CUT in adjustment P. 33
©CUT Out adjustment ©Infrarotsensor P. 36
P. 36
P. 18

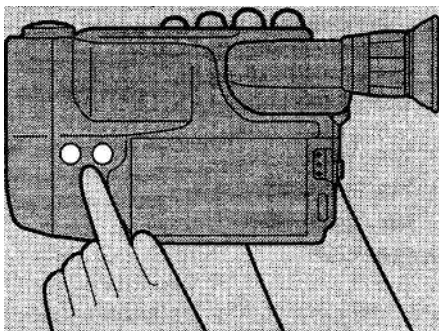


1. The menu key press, around the menu to open.
2. The FlexiZone automatic controller upward or down push, around the arrow in To move display up and downward.
3. The FlexiZone automatic controller sideways reprints, the function in and to switch off or the attitude too change.
4. The menu key reprints again, to close the menu.

Note:

User keys (Custom key)

The new user keys permit it to you, the user, to select functions which are to be available on simple depressing the key.



The two keys at the left side of the Camcorders can be easily programmed, in order to implement a set of functions. With the purchase of the Camcorders they are normally factory-installed adjusted to FADE CUSTOM KEY 1 (see page 23) and BLC CUSTOM KEY 2 (see page 28).

Select the functions, which use you most frequently, and store you these under the user keys. It is easy to change the function of a user key when desired.

Adjust the functions of the user keys

► CUSTOM KEY 1 • • • • FADE

(see page 19)

CUSTOM KEY 2 . - B L C

1. The Programmwähler on Reception program or on PLAY place.

- The function of a user key in Play-back operation (i.e. if that Programmwähler on PLAY stands) is different as in the camera mode (i.e. if that Programmwähler on reception Program is posed).

2. The camera or play-back menu open, and the pointer on "CUSTOM KEYS 1 " or "CUSTOM KEY 2" place.

- The keys are at the side of the Camcorders numbered.

3. For the CustomKey concerned Key selected attitude select, and the menu close.

- While the menu is open and the pointer to a user key, can those points User key on one of the functions , those are adjusted in the table also an asterisk are marked, by those Key at the Camcordergehäuse or at that Remote maintenance is operated, the this

They can select under the following functions:

- FADE (fade out) P. 23
- BLC (back light reconciliation) P. 28
- MANUAL FOCUS (manual focusing) P. 27
- SHUTTER (manual verschlusszeit) P. 29 EXP.
- LOCK (FlexiZone AE-Belichtungssperre) P. 28
- lth S. OFF * (picture stabilizer out) (UC800/UC850) P. 17
- SENSOR * (infrared sensor) TALLY P. 18
- LAMP (control light) ON SCREEN * (screen display) * (title) DATE * (date) P. 18
- TAPE RETURN * (tape return) P. 50
- COUNTER RESET (counter resetting) P. 22
- REC.SEARCH+ * (reception browsing +) P. 13 P. 13
- REC.SEARCH * (reception browsing -) P. 30
- START/STOP * (start/stop) P. 6
- (no display) (no function selected)

Indicate the Anwendertasten Function in the Sucher

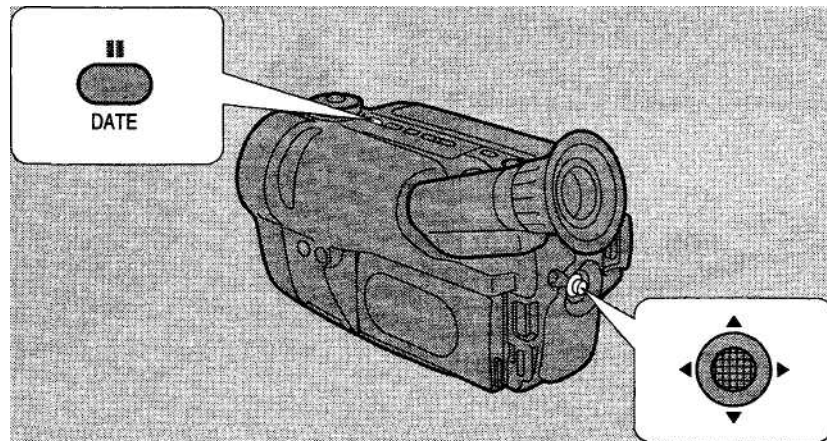
If you want, you can indicate the functions, with which the user keys are occupied momentarily in the Sucher. To Einbzw. Switch off this display must:

1. The Programmwähler on Reception program or PLAY place.
2. The menu key at the back of the Camcorders press.
 - A menu appears in the Sucher.
3. Guarantee that the cursor up CUSTOM KEY info. above in the display points.
 - As required with the FlexiZone Regler^öher move or lower.
4. The display through pressures of the FlexiZone automatic controller to the side in or switch off.
 - After this procedure the menu key err " eut press.

Note:

- The function stored under a user key is stored

Date and time



The date and/or the time appear in the Sucher, if the DATE key is pressed. If the reception is started now, these data are inserted into the picture. Press the key again, in order to switch the insertion off.

If date and time are not input, the display appears “—:—:—” in the Sucher, if the DATE key is pressed. This display is not inserted in the reception picture.

Date and time with first using the Camcorders stop. As long as the back-up battery (P. 10) is inserted, the clock circuit of the Camcorders continues to run, even if the auxiliary power supply is interrupted.

1. Program selection wheel on **Reception program place and STANDBY cover open.**
2. The DATE key three seconds long **keep pressed.**
 - The yearly display in the Sucher begins

Choice of the kind of display

► AUTO DATE “2:00 AT the 31.JAN, 199?”

(see page 19)

They can select between three different kinds of display for date/time of day:

I time

2:35:10 PM I

Date

18.OCT.1S97

- Once press, in order to further-set one year or keep pressed, around fast by those To connect through years.

4. If you selected the year, that **FlexiZone automatic controllers to the side press.**
 - Thus the year is adjusted, and the next Part the display begins to flash.
5. Repeat step 3 and 4 to **Attitude of the monthly, the daily, that Hour and the minute.**

1. The Camcorder on reception break
switch.
2. The camera menu open, and that
Pointers on AUTO DATE reset.
3. The desired kind of display select, and
the menu close.

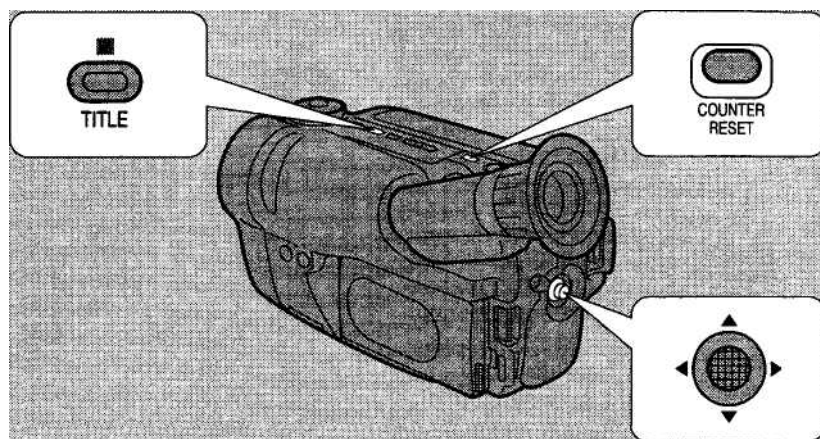
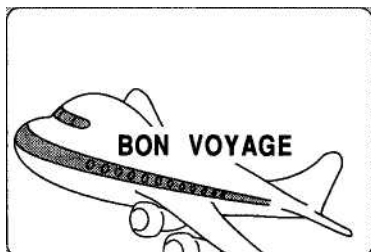
2

5

Note:

- The display can be stopped on any year
between 1996 and 2010,

Insert from titles



They can write and in the Camcorder store your own titles, in order to insert it according to desire into the receptions. Remember to insert first the back-up battery (see P. 10).

The title stored in the memory is shown in the Sucher, if you press the title key. If the reception is started now, it is inserted in the picture. Press the key again, in order to waive the title display again.

Press the key again, in order to reset the title display again. The title is only inserted, while it is to be seen in the Sucher.

- Once press, around the cursor around one To move position. Keep pressed, around it to move on fast.

4. The FlexiZone automatic controller upward or down press, in order to drive by the indication list.

- Once press, around an indication to advance; pressed keep, over fast to continue.
- The following letters and indications are available:

r->ABCDEFGHIJKLMNOPQRSTUVWXYZ

- If you select a flashing point \$, a flashing point in the Sucher appears, the reception and play-back however one Blank character.
- Over the indication to or right of the cursor to reset, you hold the COUNTER RESET at least one second gropes ged moves long.

Erzeugen von Titeln

£

These lines appear in the Sucher, if you write a title.

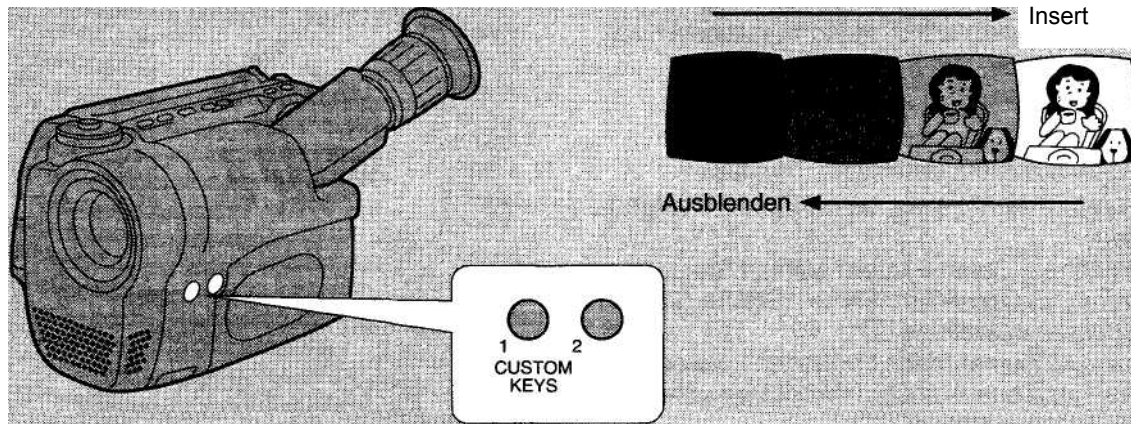
Input the title into the memory of the Camcorders, before you begin with the reception. The title can be long or two lines with up to 16 indications each.

1. Program selection wheel on **Reception program place and STANDBY cover open.**
2. The title key press and pressed **hold, until the title lines in the Sucher appear.**
 - If already a title in the memory , appears he was input now in Sucher.
 - The first point (and/or letter) flashes, over to indicate, where the cursor (the point of inserting)

5. If the desired indication **appears, press you to the FlexiZone Automatic controller to the side, around the cursor to that To move position, where the next Indication to be inserted is.**
6. Step 4 and 5 repeat, to that **Title is finished. The title is certain, de Title key press, around the title i n to input the memory.**

Notes:

In and fading out



Insert

The scene inserts itself gradually from an empty screen:

1. **Guarantee that one that User keys is posed on FADE.**
 - To details see page 20.
2. **The Camcorder on reception break place.**
3. **The “FADE” - to whom-that-groped press and keep pressed, until the scene completely from the Sucher disappeared.**
4. **The Start/Stop pushbutton press, around those To start reception.**
5. **The user key “FADE” release.**
 - The scene inserts itself slowly.

Fade out

The scene fades gradually:

1. **Guarantee that one that User keys is posed on FADE.**
 - To details see page 20.
2. **The “FADE” - to whom-that-groped with that Reception press and pressed hold.**
3. **If the scene completely disappeared, the Start/Stop pushbutton press, in order to terminate the reception.**
4. **The “FADE” - user key release.**

are not faded out.

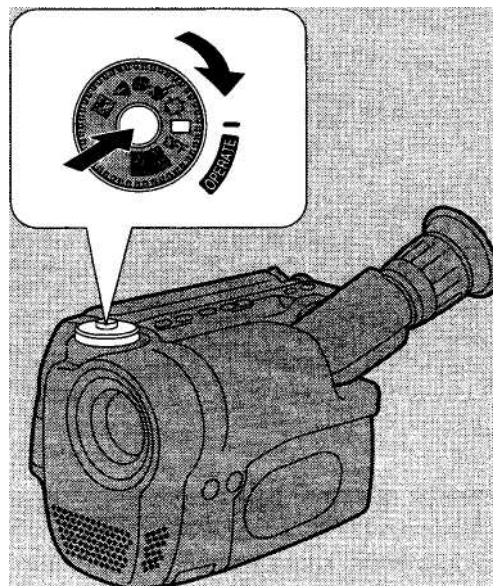
Select a reception program

The Camcorder offers the selection between six reception programs to you. These programs work with different combinations of the camera focusing, in order to correspond to different reception situations.

Turn the program automatic controller, in order to select the desired program before the beginning of reception.

- For simple "immediately films" you select that Program "simply reception". Place that Selector switch in position □.
- Use for normal conditions of admission It the FlexiZone Aufnahmeprogramm. Positions It the selector switch on o.
- For difficult conditions of admission that offers Camcorder four special (exposure mechanism) Programs.

For adjusting the program selection switch from "OFF" to another position you must press the release key.



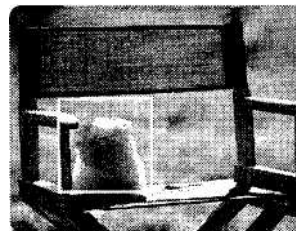
Simply reception

The simplest kind of using the Camcorder is to be placed the Programmwähler on □. The Camcorder stops focusing and the exposure automatically, and you can concentrate completely on the happening.



FlexiZone on would take

With normal conditions of admission you set the Programmwähler to o. This program corresponds "simply reception", with the difference that they can use also the manual functions of the Camcorders now. • Select this program, if you want to use FlexiZone Autofocus (P. 27), FlexiZone Belichtungsautomatik (P. 28) sharpness storage (P. 27) or manual verschlusszeiten (P. 29).



Special exposure mechanism programs

functions, receive outstanding pictures.

- Manual focusing is possible in this program (P. 27).

SPORT

Portrait

This program is suitable for Portraitaufnahmen in the free one, where the motive from a softly drawn front and background is to be emphasized. The program is suitable also for fixed image compositions and close-ups. The effect is particularly remarkable, if the zoom shot position between the end of the central range and the Teleeinstellung is selected. For best results you should focus manually.

- Manual focusing is possible in this program (P. 27).



Impact light

Use this program, in order to take up headlight-lit scenes, as for instance on a Theaterbühne. The exposure is stopped automatically in such a way that with concentrated sources of light lit up motives are taken up effectively and without overthrow distortion.

- Manual focusing is possible in this program (P. 27).



Sand and snow

Use this program, in order to take up at places, where the background is so bright that the motive in the Sucher appears under — e.g. a sunny beach or a ski runway. • Manual focusing is possible in this program (P. 27).



SAND & SNOW

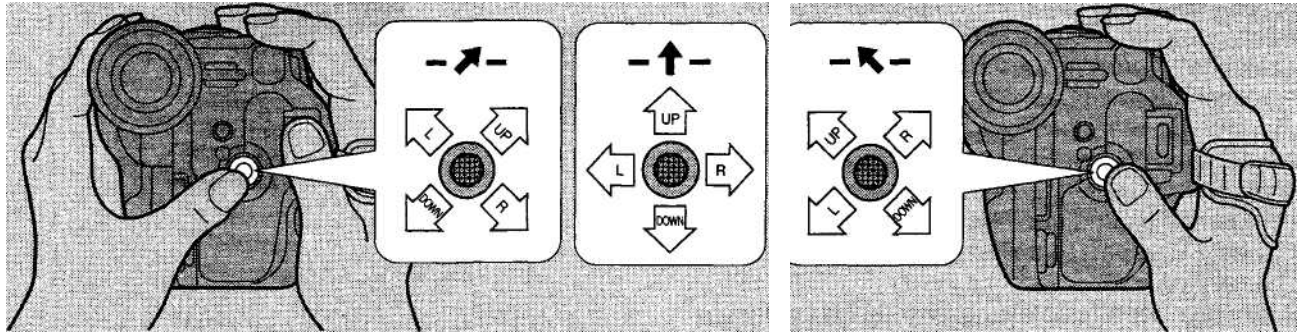


Notes:

- Do not place the exposure program during the reception over, there itself otherwise those Motive brightness to suddenly change can.
- The special exposure mechanism programs are not for all exposure situations

been suitable. In the case of use under
unsuitable
Conditions can flicker the picture, or it
a bright line in the picture can appear.

Adjust the FlexiZone automatic controller



A FlexiZone moving more ler according to the hand stop.

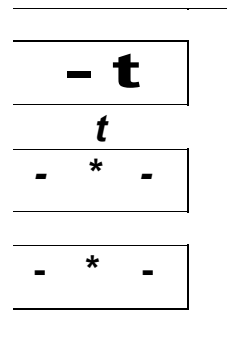
The FlexiZone automatic controller can be used equally well with the left and right hand. Normally through pressures of the upper part of the FlexiZone automatic controller of the frameworks one moves directly upward, by pressures of the lower part of the automatic controller downward and so on. The operation directions of the automatic controller can be changed over in such a way that they agree with the natural thumb movement.

(see page 19)

► FLEXIZONE CONT. t

1. Program selection wheel on a reception program place and **STANDBY** cover open.

2. The camera menu open, and the arrow on **FLEXIZONE CONT.** reset.
3. The desired attitude select, and the menu close.
 - The arrow in the Sucher indicates the angle of the "UP" - to direction.



Reference

- The attitude is stored until a new is input.

Focusing

The camera can focus automatically. They need to direct it only toward the desired motive, and which always in the center of the Sucherbilds appears, one adjusts normally sharply.

The following two functions permit more control of focusing.

FlexiZone Autofocus

FlexiZone AF makes autofocus higher performance. With the FlexiZone automatic controller you select a motive in any position in the Sucherbild, and the camera focuses on it. Select the FlexiZone Aufnahmeprogramm, if you want to use FlexiZone Autofocus.

FlexiZone Autofocus is useful in the following situations:



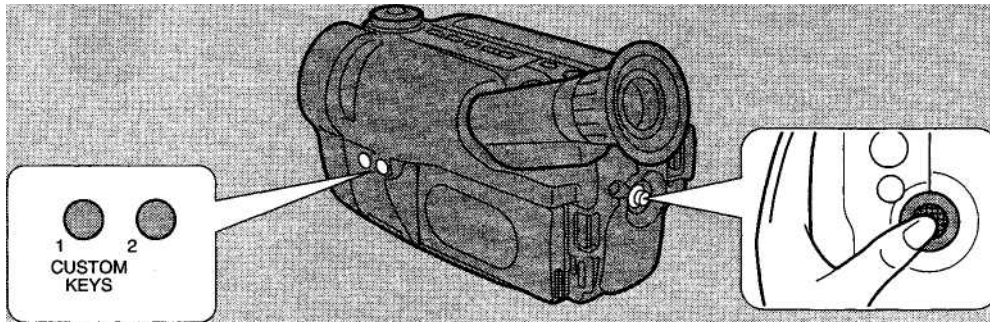
If the main motive is not in the picture center.



In addition that becomes acquisition "focus shift" - technology erreicht. They can affect the attention of the spectator, by sharply placing first on a part of the picture and afterwards on another.

1. Set the Programmwähler to o.
 - The FlexiZone supporting frame appears in Sucher.
2. Use the FlexiZone Regl&r, around the framework over the motive too move.
 - The CONTROLLER can in each direction moved become. Repeated press, around the framework to shift stepped. Keep pressed, over to shift the frameworks fast.
 - The camera places the focusing according to the range inside of the

Focusing



Sharpness storage and manual focusing

Sharpness storage is possible in each reception program, except "light reception". Helpfully with receptions, with which persons or auto cross the picture or if the motive is not in the Suchermitte.

1. Guarantee that one the Custom key **User keys set to M. FOCUS** is.

2. Put the Camcorder up directly **the motive**.

- On the motive one focuses automatically.
- When using FlexiZone AF the AF Frameworks over the motive put.

3. **Custom key user key "M. FOCUS " press,**

- The sharpness becomes on this point stored.
- AF OFF is indicated in the Sucher.

4. **The Custom key user key "M. FOCUS " will again print over To reset autofocus.**

In the special reception programs (sport, Portrait, impact light, sand & snow) the sharpness can be stopped also manually.

1. **Zoom it the motive into that desired picture angle.**

- If after the focusing gezoomt becomes, the reception can become indistinct.

2. **Press the Custom key User key "M. FOCUS", over of Autofocus on manual focus to switch.**

- AF OFF is indicated in the Sucher.
- The sharpness remains on the point, up those adjusted the autofocus.

3. **The FlexiZone automatic controller to Focusing use.**

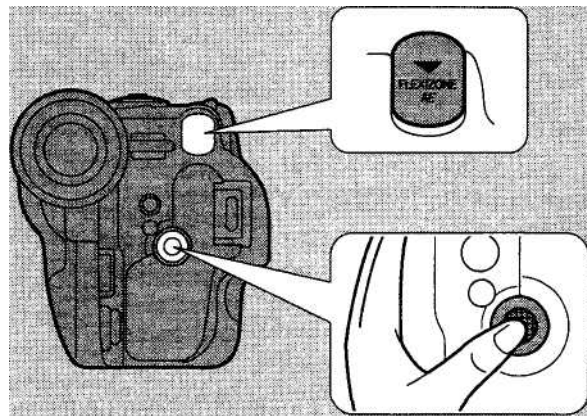
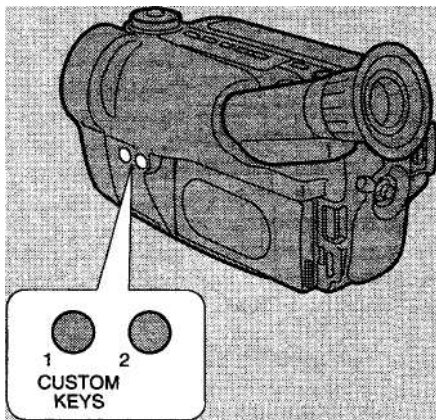
- Press downward for sharpness misalignment forward.
- Upward press to sharpness publishing house ring to the rear.

4. **The Custom key user key "M. FOCUS " will again print over To reset autofocus.**

Notes:

- See "fault finding" on page 48: List that Motives, which are not suitable for autofocus.
- Manual focusing is waived, wj nn They the program "light reception" threw, or if it the Programmwähler on EDFT, PLAY or OFF place.
- FlexiZone Autofokus is waived, if her the Programmwähler from the position - D> move away

Exposure mechanism



The Camcorder stops the exposure automatically and guarantees that the pictures appear neither too bright nor too dark. Six reception programs for the choice stand, in order to different conditions of admission to correspond (see P. 24).

In this section one explains, how two further exposure functions are used. Thus you receive to more control of your receptions.

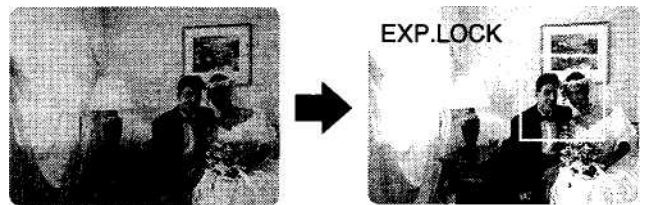
Back light compensation



Back light, which falls from the rear on the motive, can lead to the fact that the motive looks dark and exhibits no details. The back light compensation (BLC) serves to adjust this effect.

1. Guarantee that one the Custom **Key user keys with BLC is occupied (see page 20).**
2. If the motive in the back light is and **one under-exposes, press you for "BLC" programmed user key.**
 - Equal Camcorder this back light out, as long as the key is kept pressed.
3. **Release the key, if them not longer one needs.**
 - They know the back light compensation only begin, if it "Easy Recording" or

Flexi



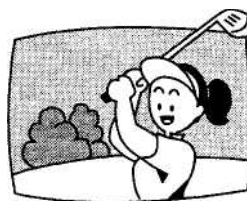
The Camcorder stops normally the exposure in such a way that the entire Scene, and the range in the picture center are particularly exposed, correctly. With FlexiZone Belichtungsautomatik you can select a part of the picture, so that the motive is well exposed also if it is closer at the contour or if it is very bright or dark.

1. **Set the Programmwähler to o.**
 - The FlexiZone supporting frame appears in Sucher.
2. **Use the FlexiZone automatic controller, around the framework over the motive too move.**
 - The CONTROLLER can in each direction moved become.
3. **Press the FLEXIZONE AE key.**
 - The Camcorder stops the exposure in such a way that it the range corresponds, momentarily in The internal framework is. They can do that Frameworks move, over on another fildteil to focus, but the exposure range does not move thereby.
 - The message EXP.LOCK appears in the Sucher.
4. **Press the FLEXIZONE AE key again, around the FlexiZone Exposure mechanism again to switch off.**
 - The exposure becomes now again accordingly the picture center adjusted.
 - Press the key again, if them those Exposure according to the new position of the

Manual verschlusszeit

The verschlusszeit is given under normal conditions automatically, can be adjusted however if necessary also manually, as long as the program selection switch is posed on "fj".

1/2000 to 1/10000 s



► SHUTTER " 250

MENU

(see page 19)

1. The reception menu call and that **Arrow to "SHUTTER" induce.**

2. The desired verschlusszeit select.

AUTO ONE ■ "----- 1/50 + ----- * - 1/120 * ----- ►
1/250

1/10000

1/40

'1/2000

1/1000

■ 1/500

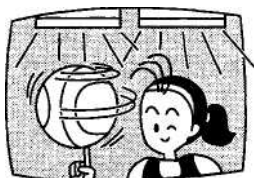
3. The menu indication reset.

- The selected verschlusszeit is indicated for confirmation in the Sucher. During the attitude "AUTO ONE" is not to be seen a display.

Choice of the correct Verschlusszeit

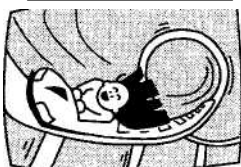
Select verschlusszeit a fitting rate of motion and brightness of the motive:

1/120 s



To the purposeful Unterbelichten extremely bright scenes or for more stable pictures when filming resounding port scenes.

1/250 to 1/1000 s



With sport receptions in the free one under clear sky, which is to be regarded late pictures around picture. At normal play-back speed such scenes work jerkily, can be shown and analyzed however on a video recorder with noise-free fixed image play-back function picture around picture sharply.

Custom key kind whom-that-grope

They can stop also a manual verschlusszeit with the user keys.

1. Guarantee that one **User key posed on SHUTTER is. (To details see page 20.)**

2. "SHUTTER" the user key **push shut, around the verschlusszeit change.**

- The verschlusszeit is shown in the Sucher.
- There is no display, if the verschlusszeit is posed on AUTO ONES.
- With each depressing the key the wearing time becomes changed over as follows:

AUTO ONE --- M/50 ----- > ■ 1/120 ----- "1/250
1/10000

1/4000 * ----- 1/2000 - " ----- i/1000 *" ----- 1/500

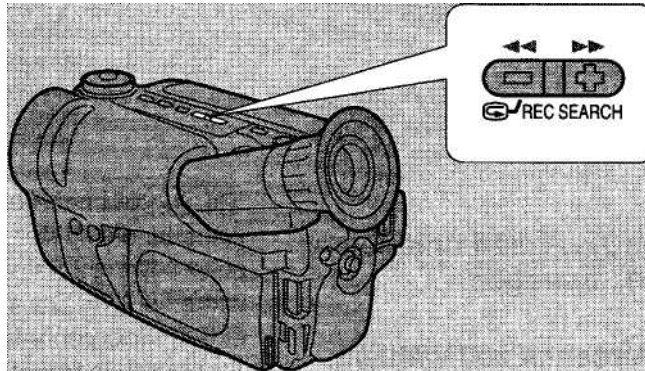
2
!

o

adjust on one of the other positions.

- The catch time attitude is stored, if the Camcorder by latches that STANDBY cover is switched off, **more ifcer** not if it with the Programmwähler one switches off.

Searches and examining



Reception browsing

If the Camcorder is in reception break operation, you can pre or rewind with this function the tape, in order to find the position, where the reception is to be begun or repeated. That is useful, if a new scene is to be inserted in a cartridge already taped. With the reception browsing function you can provide for a smooth transition between the existing and the at the beginning of the again inserted scene.

1. The Camcorder on reception break place.
2. The key REC SEARCH + or -
press and keep pressed, and that Picture in the Sucher regard.
 - + the key plays the tape in forward of and
 - the key in backwards direction off.

3. The key release, if to
Reception desired position is found.
 - The reception search picture pausiert briefly, and that Camcorder switches to reception break back.

Scene examination

If the Camcorder is in reception break operation, you can use this function to see and reset then to reception break urn the last seconds of the existing reception automatically. They can examine fast whether a scene was noted according to desire and then fast to the next scene to turn into, without receiving noise between the scenes.

1. The Camcorder on reception break place.
2. The key @ (REC SEARCH -) press and release, and the picture in the Sucher regard.

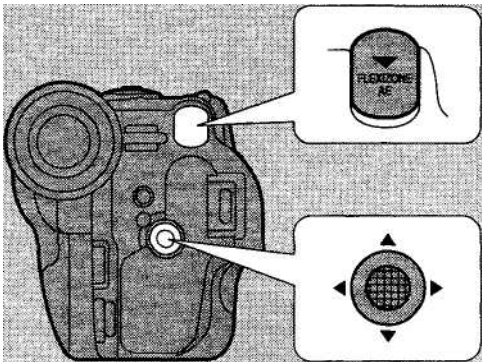
- The Camcorder rewinds the tape and plays the last seconds of the reception.
- The Camcorder switches in the position, where those Key is pressed, on Aufnahmepaus back.

Notes:

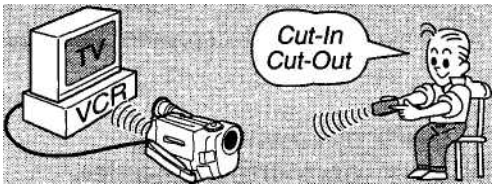
- During the reception search and Scene examination knows noise or Verzerrung in the picture, can see

Automatic cut function

The inserted automatic cut function can be begun very easily. Regard simply the original tape and press you the AE-FlexiZone-key (or the EXECUTE key at the remote maintenance) at the beginning and end of each scene which can be noted. Thus a cut program is produced. Start then the program, and the video recorder takes up automatically the scenes, which marked you on the tape in the Camcorder. Before the reception you can with the preview function the selected scenes regard (page 35) and cut initial and - terminator points (page 37) change or even reset (page 38), or scenes exchange (page 39).

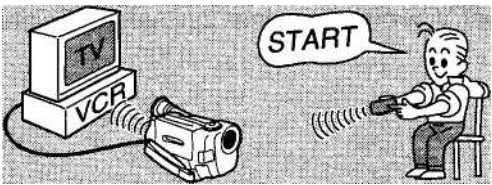
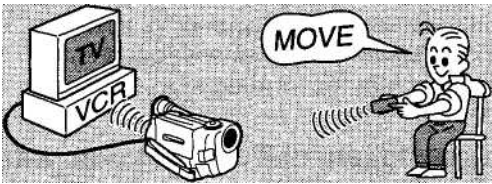
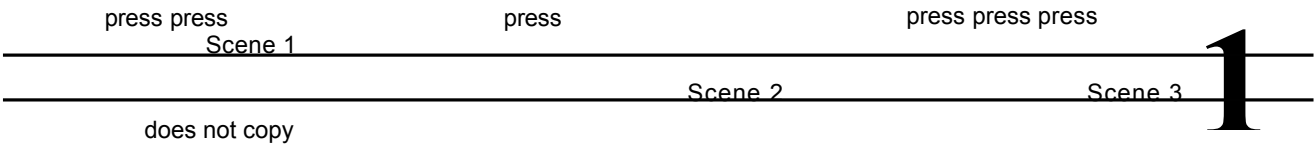


Meet all attitudes on the Camcorder. Attach all Video-und audio cable. Place to the Camcorder in such a way that it can steer the video recorder over infrared. (P. 32)



2. Regard the play-back. Pressure the EXECUTE key at the remote maintenance (or the FLEXIZONE AE-key at the Camcorder) at scene beginning of the scene which can be transferred. Press the key again at the end of the scene which can be transferred. Can be selected up to 8 scenes in this way. (P. 34)

Original tape in the Camcorder



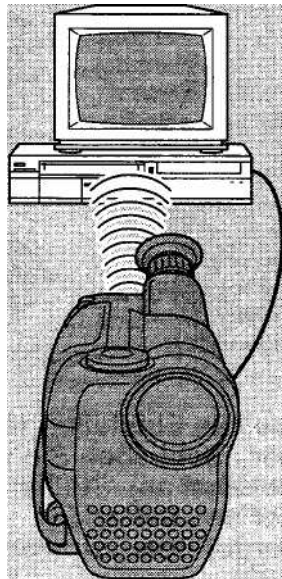
3. If desired, you examine Schnittfolge. They can again arrange scenes, change at the beginning of and terminator points of the cuts, or reset all cuts.
- For selecting a function, a scene, the intersections or scene conversion you operate the FlexiZone automatic controllers. For activating a function you operate the "EXECUTE key (or FLEXIZONE AE-key) (P. 35-39)
4. If everything is perfect, transfer automatically on the video recorder. Select START from the menu and press you the EXECUTE key (or FLEXIZONE AE-key) (P. 35)

Transferred tape in the video recorder

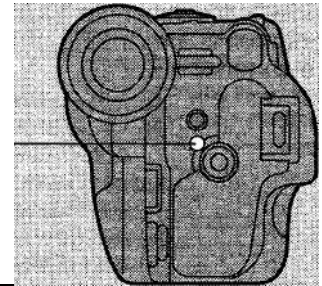
2	3	1	unbespielt
---	---	---	------------

Note:

Preparations for automatic cut function



Infrared signal generator



Furnish the Camcorders for the controlling of the video recorder

The automatic cut function of the Camcorders steers the video recorder with the same infrared signals as the remote maintenance of the video recorder.

Always guarantee that the Camcorder in a position stands, where it can remote control the video recorder.

The automatic cut function makes it possible to arrange scenes of an original tape arbitrarily again. Subsequently, the finished can be examined after product once, and fine corrections can be made before final transferring. Shifting or extending/shortening scenes for perfect of video tape recordings were not easier ever.

1. The Camcorder to the video recorder attach.

- See data by "play-back" on side 14.

2. The television switch on.

- Always guarantee that the television up the video channel is posed, or the TV/Video selector switches on video place.

3. The video recorder switch on, and an empty cartridge insert.

- See operating instructions of the Video recorder.

4. The video recorder on LINE in place and on reception break.

5. The Programmwähler at the Camcorder on EDIT place.

- If the Programmwähler is posed on EDIT, all

1. With the remote maintenance of the Video recorder examine, where that Remote maintenance sensor to Video recorder is present.

2. The Camcorder in such a way set up that it directly on the sensor of the Video recorder points, in a distance of no more than 50 cm.

- With the normal remote maintenance of the Video recorder examine whether the sensor those Signals here easily identifies.
- Guarantee that no cables or Stretcher loops in the way are.

3. Guarantee that the video recorder is set to reception break.

- In other words: With insert emptier Cartridge and in reception tracing operation is the video recorder for the reception ride now.

Sucheranzeigen can be indicated also on the television attached at the video recorder.
These displays are not noted on the tape in the video recorder.

First employment of the automatic cut function

MENU
► RECORDER SELECT-1-A
CUT-1N ADJUST 1.5
CUT-OUT ADJUST " ••+ (>.
8
SENSOR ON

If you use the inserted cut function for the first time or with another video recorder work, you must adjust the Camcorder in such a way that he sends the correct infrared signals to the video recorder. The Camcorder stores the attitude of RECORDER SELECT, until you change her. Do not change the attitude, it are, it another video recorder are used.

1. Guarantee that the Camcorder and the video recorder are furnished, as in "Preparations", and "setting-up of the Camcorders for controller of the Video recorder ", described page 32.
2. Open the menu, and you reset that Arrow on RECORDER SELECT.
3. Select the correct attitude for Their video recorder in accordance with table right.
 - Press the FlexiZone automatic controller to the right down to scan the numbers and Letter, up to the first attitude that Label of your video recorder. (e.g. 7-A, if it a JVC recorder is.)
 - Examine whether the attitude is correct: Press the FLEXIZONE AE key. If the video recorder the reception starts, is those Attitude correctly. If the video recorder does not start the reception, select the next attitude (7-B in this example). If necessary you examine all existing attitudes for the label of your video recorder.
4. If you do not find correct attitude, examine the following method:
 - Press the FlexiZone automatic controller to the right down.
 - The numbers and letters in the Sucher or change for attached television. That Camcorder scans all possible Attitudes.
 - The video recorder with the reception starts, FlexiZone automatic controller any longer do not operate. It should longer than approx. 80 seconds do not last, over to find a correct attitude.
 - Examine whether the attitude is correct: Set up first the video recorder

5. As last test you try those automatic cut function. If that Videorecorder does not start correctly and , tries you another stops Attitude.
- The number (i.e. the manufacturer) is probable correctly, but you try some the others Letter out.

RECORDER SELECT

The automatic cut function of the Camcorders can steer nearly all available video recorders infrared. The remote controlling signals of video recorders are different depending upon model and manufacturer. First the correct attitude must be selected from the EDIT menu. The list of the attitudes for RECORDER SELECT contains a number and book rods. The number marks the manufacturer and the letter the used signal code.

Manufactur er	Attitude for RECORDER SELECT	Manufacture r	Attitude for RECORDER SELECT
Canon	1-Abis1-B	Toshiba	15-Abis15-B
Aiwa	2-A to 2C	GE	116-A to 16-B
Akai	3-A to 3-C	RCA	
Fujitsu	4	Magnavox	17-A to 17-B
Funai	5	Philips	18-A to 18-D
Hitachi	6-A to 6-B	Seleco	
JVC	7-A to 7-C	Rex	
Mitsubishi	8-A to 8-D	Thomson	
NEC	9-A to 9-D	Saba	
Panasonic	10-Abis10-F	Nordmende	
Point of blue		Ferguson	19-Abis19-C
Quasar		Grundig	20-A to 20-D
Pioneer	11	Nokia	21-Abis21-C
Sanyo	112-Abis12-D	Telefunken	22-A to 22-B
Fisher		Zenith	23
Sharp	13-A to 13-C	Samsung	24-A to 24-B
Sony	14-Abis14-C	Gold star	25

Stood May 1997

Notes:

- While you use RECORDER SELECT, causes the key FLEXIZONE AE that that Video recorder the reception starts, if it in Reception break operation is.
- You are not safe over the correct , You follow attitude the notes left.

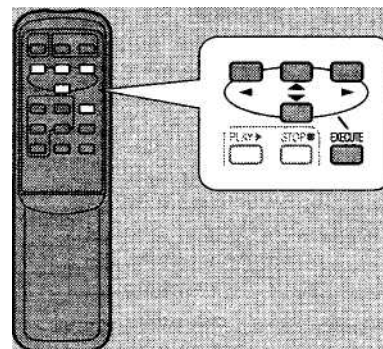
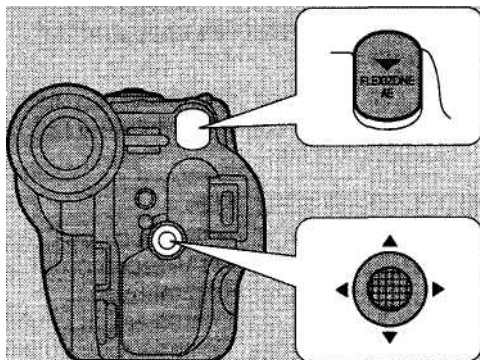
Note:

If you luben all numbers and letters tried, but the video recorder yet does not start:

- Examine whether the video recorder ready for input and is set to break.
- Examine whether the video recorder of signals of the location the Camcorders received and none can Obstacle in the way stands.

Transferring, as indicated on page 40.

Set function selecting a scene

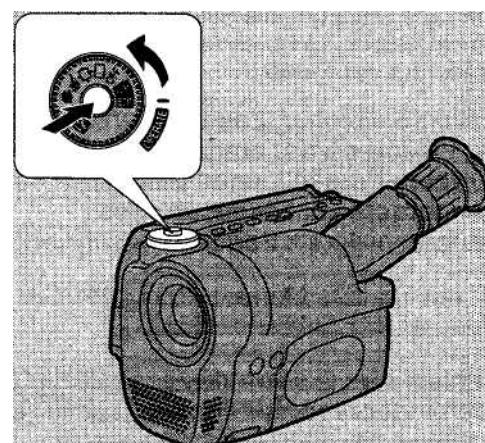


Select a scene (set function

You determine the beginning and the end of a scene through pressures of the FLEXIZONE AE key (or EXECUTE key of the remote maintenance) in each case at the scene beginning and/or end. (Cut "CUT in" and/or "CUT out")

Instead of the controller keys at the Camcorder you can use also the controller controllings of the remote maintenance. The EXECUTE key of the remote maintenance corresponds to the function of the FLEXIZONE AE key of the Camcorders. The four arrow buttons of the remote maintenance correspond to the FlexiZone automatic controller.

1. Guarantee that the Programmwähler is posed on **EDIT**.
2. Guarantee that the set function **down at the screen emphasized is**.
 - If this is not the case, the arrow with that FlexiZone automatic controllers to the lower line induce.
 - Then the FlexiZone automatic controller to the side press, in order to change the emphasized function.
3. The tape with the key "Play" ► start.
 - Rewind first the tape and press then "COUNTER RESET".
 - The keys ►, ◀, ►►, II and ■ can in Play-back operation in same way are used.
4. **At the beginning those which can be transferred**
You press scene the FLEXIZONE AE Key.



EDIT TOTAL 0:17:19 STOP CUT-IN
CUT-OUT 0:37:54
0:01:20 * 0:04:05
0:15:03 + 0:18:20
0:20:15 + 0:30:32

DELETE PREVIEW START CLEAR

6. **The inserted cut function can be programmed in such a way that up to 8 different scenes in same way are stored.**

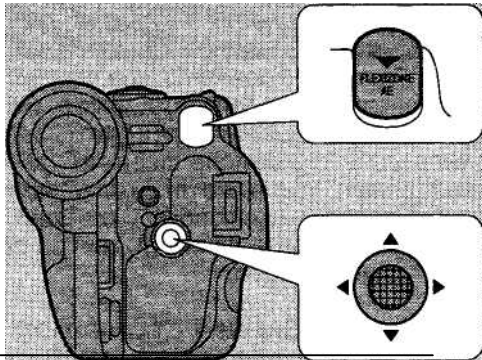
5. **At the end of the scene which can be transferred you press the FLEXIZONE AE key (or the EXECUTE key).**

To input scene end (CUT out), or
Scene end (CUT out) before one
To input scene beginning (CUT in)

Notes:

- The display TOTAL in the menu points above to those entire play time of all selected scenes H n.
- For the avoidance of tape interferences, ask line
“CUT out” CUT in” or cuts set into that first or last 10 seconds of the Bandlunge.

PREVIEW/START preview/start Function



N	47	STOP
01	0	40:03
15	5	
20	20	
35	32	
EDIT TOTAL	15	
CUT- 0:19		
0: CUT-OUT	204	
0: 0:04	03-^	
0: 0:18	154	
0 0:30	4 74	
	0:38	

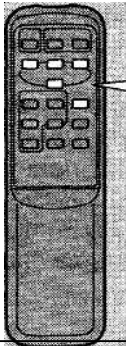
► SET

START CLEAR

Preview function

They can examine the cut program with the preview function. The preview function PREVIEW plays all selected scenes in the order, in which they appear in the finished tape, and pausiert automatically at each "Schnitt-Ein" - and "cut from" - point, in order to facilitate a cutting.

1. Use the FlexiZone automatic controller, **over in the screen to the lowest line too drive and then to the side to PREVIEW function.**
2. Press the FLEXIZONE AE key.
 - The Camcorder now plays all scenes in that programmed order off.
 - In the preview mode the tape always starts a little before actual "Schnitt-Ein" -



pg-q
: r^ i

STOP
40:03

EDIT TOTAL 0:19:47
CUT-IN CUT-OUT 0
► 0:01:2fl4 0:04:05
0:15:034 0:18:20
0:20:154 0:30:32
0:35:474 0:38:15

I

SET DELETE PREVIEW

CLEAR

Point. It pausiert then exactly 2.5 seconds long at "Schnitt-Ein" - the point, and again to "Cut from" - point.

Reception on video recorder (starting function)

1. Guarantee that that
**Video recorder ready for input and up
Break is posed.**
2. Use the FlexiZone automatic controller,
**over in the screen to the lowest line too
drive and then to the side for the
STARTING
Function.**
3. The cut program starts, if it
**the FLEXIZONE AE key (or those
Key EXECUTE at the remote
maintenance)
press.**
 - The video recorder takes up automatically the
scenes, which were selected on the tape in the
Camcorder.

CUT in time adjustment CUT out

CUT in Zettjustierung CUT out

The point, where a scene starts, is called "CUT in" - point and that, where the scene ends, "CUT out" - point.

Some video recorders need or two seconds, in order to begin after the reception of the control instruction with the reception. In this case it can occur that you miss the beginning of scenes. The function CUT-IN ADJUST prevents this, by sending the signal somewhat in former times.

The function CUT-OUT ADJUST prevents that the end of the scene is cut off, by sending the signal a little later.

If you notice one of the problems at your video recorder, mentioned above, make please the appropriate attitudes.

"CUT into" - "CUT out" and - points can be adjusted with the menu.

▶ CUT-IN ADJUST ** "-
1, 5 CUT-OUT ADJUST. + 0.8

(see page 19)

1. Open the cut menu and reset

It the arrow on CUT-IN ADJUST.

- Direct it toward CUT-OUT ADJUST, over the time gift for "cut from" - point to adjust.

2. Make the attitude.

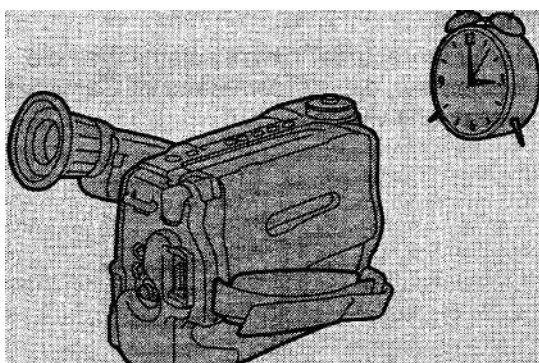
- CUT-IN ADJUST can be adjusted in such a way, that the reception over up to 5 seconds in former times begins. (- 5.0)
- CUT-OUT ADJUST can so adjusted it becomes that the reception over up to 5 Later ends to seconds. (+5.0)
- The attitude becomes in steps of Tenth ofs a second made.

Compute the best attitudes for "CUT-IN" and "CUT-OUT" points

Make a sample reception, whereby you film a clock with a second hand. If possible, a stop clock with display use 1/10 second. Cut this reception with the cut function. If you regard the cut reception now, you can see, how much time of the video recorders needs, in order to begin with the reception.

1. Use the Camcorder, around one
To film clock with second hand.
2. Set up the Programmwähler
EDIT and close you that Video recorder on (P. 32).
3. Place to CUT-IN ADJUST and CUT
OUT ADJUST to 0.0.
 - Close the menu, if the attitude is terminated.
4. Guarantee that the set function
down at the screen is activated.
5. Program a scene, those
begins, if the second hand those 12 on the clock reaches and ends, if it the 12 reaches again.
 - Press the FLEXIZONE AE key, if the second hand on the 12 is exact.
 - If you adjust CUT-OUT ADJUST, give an easily recognizable here different scene. Then you can the transition easily identify.
6. **Take this scene on that Video recorder up.**
 - Use the starting function.
7. **Regard the scene on that Video recorder.**
 - Place the difference between that Scene beginning and scene end and the time firmly, to that the FLEXIZONE AE key one pressed. For example:
 - If the scene begins, if that Second hand on 2 seconds after 12 is, know that the function CUT-IN ADJUST auf-2,0 to be adjusted should. If it begins, if the second hand on 3 Seconds after 12 it is, knows you that those Function CUT-IN ADJUST auf-3,0 adjusted will should, and so on.
 - If the scene ends, if that Second hand on 2 seconds before 12 i sp, know that the function CUT-OUT ADJUST to +2,0 to be adjusted should. If it ends, if the second hand on 3 seconds before 12 it is, knows you that those Function CUT-OUT ADJUST to +3,0 to be adjusted should, and so on.

0)
■ 0



Note:

Cuts of scenes

Change “cui in” - “CUT out” and - point

- 1. **Guarantee that the set function down in the screen is emphasized.**
 - If not, use the FlexiZone Automatic controller, over in the screen to the lowest line to drive and then to the side to the SET Function.

- 2. Drive with the FlexiZone automatic controller **upward or down in the screen, in order to achieve the desired scene, to be changed is.**

- 3. Move the FlexiZone automatic controller **to the left or right, until too changing desired time is emphasized.**

- Move once to the right, and “CUT in” - Point is emphasized.

- , And the “CUT moves again to the right out ” - point is emphasized.

► 0 : 0 1 : 2 0 4

Move again to the right, and the whole line is emphasized. In this way you can move the line, without changing the existing cutting times (see to “exchanging scenes” page 39.)

► 0:01:720 * 0 : 0 4 : 0 5

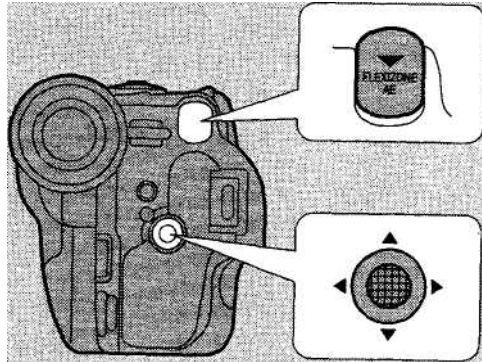
- Move again to the right, and the line is no more emphasized.
 - The automatic controller to the left move, over by those resembles attitude in more in reverse To drive sequence.
- 4. Use the Wiedergabetasten **in normal way for controller and renewed play-back of the tape. (As required first pre or rewind.)**

5. Pre
ss
the
FL
EXI
ZO
NE
AE
key
(or
the
key
EX

**ECUTE to
Remote maintenance part), in order to
indicate,
where the scene is to start or end.**

- **This position according to the counter
in the Sucher one indicates.**

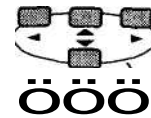
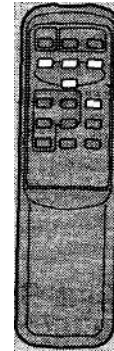
CLEAR/DELETE function resetting the Schnittprogramm/a scene



Reset the entire display (CLEAR function)

```
EDIT TOTAL 0:19:47 STOP CUT-
IN CUT-OUT 0:40:03 0:01:20 *
0:04:05 0:15:03 * 0:18:20
0:20:15 * 0:30:32 0:35:47 *
0:38:15
```

► SET DELETE PREVIEW START



Reset a scene (DELETES function)

```
EDIT TOTAL 0:19:47 STOP
CUT-IN CUT OUT 0:40:03
0:01:20 * 0:04:05

0:20:15 * 0:30:32
0:35:47 * 0:38:15
```

► SET

PREVIEW START
CLEAR

reset.

- Do not take this operating step by mistake forwards, there it otherwise with that Cuts from the outset to begin must.

Thus the entire program is reset.

1. Use the FlexiZone automatic controller, **over by the screen to the lowest To drive line, and then to the side to CLEAR function.**
2. Press the FLEXIZONE AE key (or the key EXECUTE to Remote maintenance part).

- All lines are now empty. All data are

Thus a scene is reset.

1. Use the FlexiZone automatic controller,
**over by the screen to the lowest
To drive line, and then to the side to
DELETE-FUNCTION.**
2. Use the FlexiZone automatic controller,
**in order to raise directly in the screen,
around the scene which can be reset
too
mark.**
 - **Press the FlexiZone automatic controller
upward.**
3. **Press the FLEXIZONE AE key
(or the key EXECUTE to
Remote maintenance part).**
 - The scene is now reset, and the line is empty.
 - They can insert a scene here, wppn wished, by it the set function use, as under "selecting a scene" described above.
 - If this line is left empty, becomes thus not the remainder of the reception affected, and the next scene follows cleanly after the previous.

Scenes arrange again

They can shift and exchange scenes with one another.

- 1. Guarantee that the set function down in the screen is emphasized.
 - Use a FlexiZone governing, in order to drive by the screen to the lowest line, and then for the side for the set function.
- 2. Drive with FlexiZone governing into Screen up or downward, around too to visit shifting scene.
- 3. Move a FlexiZone governing to the left, in order to emphasize the whole line.

EDIT TOTAL	0:19:47	STOP
CUT-IN CUT-OUT 0:		40:03
0:15:03+	0:18:20	
0:20:15->	0:30:32	
0:35:47+	0:38:15	

► flat steel bar: 01:2 0+ 0 : 0 4 : 0 5

DELETE PREVIEW START CLEAR

- 4. Move a FlexiZone governing upward or down, in order to achieve the desired new position.
 - The data line moves at the same time.
 - Move the FlexiZone automatic controller again to the right, if the scene correctly is positioned.

EDIT TOTAL	0:1 9:47	STOP
Y		
CUT-IN	CUT-OUT 0 : 40:03	
0: 15: 3+	0:1 8:20	
0		
0: 20:1 5+	0:3 0:32	
0: 35: 7+	0:3 8:15	
4		
!► u:	01:2 0:04:05	
(H		
LAKE	DELETE PREVIEW	START CLEAR

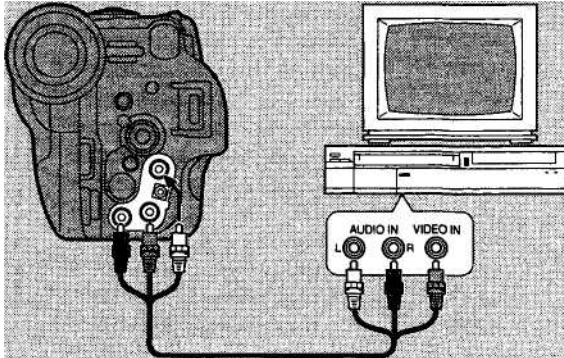
- 5. As often repeat this step as desired with

**other scenes, until the desired sequence
is reached.**

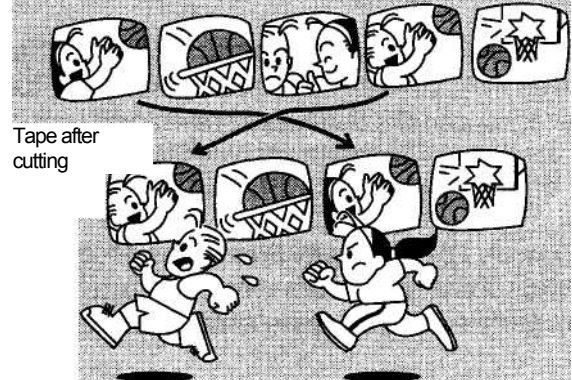
Simple transfer on a video recorder

Camcorder to the play-back use

The desired scenes play and note



Band vor dem Schneiden



If you cannot find suitable remote control attitude to the controlling of the video recorder by the Camcorder, you can cut still a tape with the video recorder, in the following way.

Preparations

- The Camcorder to the video recorder attach.**
 - Follow the instructions under "connector to the play-back" on P. 14.
- The television switch on.**
 - Guarantee that at the television that Video channel adjusted and/or derTV/VIDEO Switch is posed on VIDEO.
- The video recorder switch on and one empty video cassette insert.**
 - To details see operating instructions of the Video recorder.
- LINE IN at the video recorder select and set to reception break.
- Place the Programmwähler to **Camcorder on PLAY** and put you those taped cartridge.

Cuts

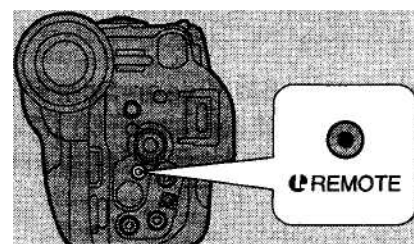
- A position on the taped cartridge **visit, those easily before the point lies, where transferring is to begin.**
- To play-back switch, and the picture regard in the monitor.
- The video recorder on reception **switch, if the desired position appears.**
- The video recorder to break switch, **if the end of the desired Section appears, and afterwards those Play-back at the Camcorder stop.**
- Step 1 to 4 more wiederholer to **all desired sections are noted.**

u remote buchse (LANC)

C remote buchse connector permits to devices like the video editor to VE-100 (P. 45). Certain keys at attached devices can have other functions than equal designated keys at the Camcorder.

Notes:

- The symbol C (LANC) is a registered Registered trade mark. It stands for "local Application



Tip for better video receptions

Stops of the Camcorders



As best stability you seize with the right hand by the grasp loop and regard you to the right elbows at the body. Seize with the left hand to the side of the Camcorders, without pressing in slightly however strongly. With something exercise you can operate the operating keys blindly, without taking the eye from the Sucher to.

Use of a stand



In order to provide for optimal stability, you can the Camcorder on a stand attach and over Fernbedienung operate.

Tone reception



They can monitor the tone, if you attach a Stereokopfhörer to the socket Q PHONES of the Camcorders.

For more creative control of the reception also an external microphone can be attached to the socket MIC.

The most important element of

Screen layout

the scene does not need to be in the picture center. In order to obtain a more interesting picture, you can try to place the main motive more at a side. It should be further from the contour far away, toward it itself

approached or to that it looked.



Do not cut to persons off the top of their heads, and you point to no case persons without heads, feet or Unterkörper. (You move the picture somewhat further upward or down.)

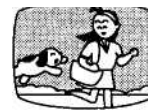


Pay attention to possibly diverting articles in the background.

Picture angle



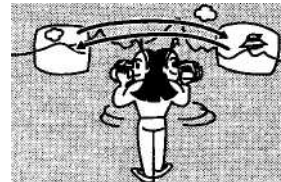
reception close-up



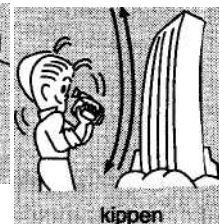
Telephoto middle

In place of the zoom with the reception you try to already decide before the reception for the correct picture angle. A good possibility for the introduction video story is a telephoto, which introduces the spectator to the situation, and from you then the close to the happening near-go. With middle and close-ups you can show then the details. Remember to select itself a good viewing angle for each new reception.

Camera movements



Swivel



kippen

Swivel the camera, in order to take up a landscape panorama or a mobile object follow. Specify first a good location, so that at the end of the swivelling range a good screen window is given. Turn your hip in initial position, without moving thereby the feet. Start the reception and keep to the Camcorder some seconds long motionless. Swivel slowly, by turning in the hip and leaving sufficiently time, in order to let the eyes of the movement follow. Keep to the Camcorder in final position again some seconds long motionless, before you stop the reception.

Tilt the camera upward, in order to e.g. stress those height of a motive. Tilt the Camcorder downward, e.g. from the roof of a building down as introduction to motives in ground floor height.

Remember that each Kamerabewegung is to serve a clear purpose. Avoid unnecessary or only halfheartedly implemented camera movements.

Notes:

- Leave ncsht on use of a stand direct sunlight on the Sucher fall, ia he otherwise melts. (The sunlight becomes by those Diopter lens bundled.) the Sucher can out the sunlight to be moved away, inderi "r", or downward h is pressed upward Horizontal position.
- Guarantee that the fixing bolt the stand not longer than 5.5 mm is, there 3) DSt the Camcorder to be damaged can.
- An inserted wind protection reduces

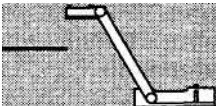
Deliverability to country differently.

Infrared Fembedienung WL-61

Battery-operated
video lamp VL-20



Adapter
carrier SA-1



Stereo
Misch
mikrof
on
MM-
200

Compact power pack CA-R300

video cassette type Video-

8

Shoulder belt SS-300
Handschlaufe WS-20

Gleichstromkuppler
DC-100

Stereokopfhörer



Car battery adapter
CB-110

Wide angle
converter
WD-46

D

Telekonverter
TL-46
Filter sentence FS-46

I D
D

Fiitersatz FS-
46U

0 0—J

VkteoedrtoVE-100

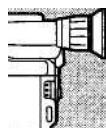
SCART Kabe! PC-150

SK-10



System suit-
case HC-
910

Soft comfort bag
SC-900



UC8007UC5000

UC850/UC5500

Battery luggage
BP-E77K/BP-
711/BP-714/BP-
E722/BP-
E722D/BP-729

HF-unit RU-100

Femseher

Video recorder

Stereo SCART cable PC-
170ST

AV-cable

J-revision—
modification

Stereo Vkteokabel SCART adapter
STV-150 PC-A10



Stand

Option

BP-711
BP-E77K
BP-714



BP-E722
BP-729



BP-E722D



Battery luggage

Beside the provided battery luggage a whole number of optional battery luggages is available. The recording times are as follows:

UC800/UC850 UC5000/UC5500

BP-711/BP-E77K 45 min. 65 min.

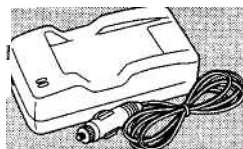
BP-714 70 min. 85 min.

BP-E722/E722D 100 min. 135 min.

BP-729 140 min. 170 min.

- The BP-E722D has a display with five LEDs, which indicates, how the remainder charge is strong.
- Depending upon marketing area it can be that determined battery luggage are not available.

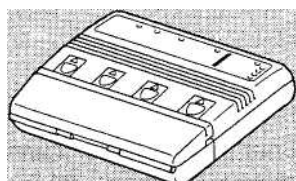
CB-110



Car battery adapter CB-110

To current supply of the Camcorders or for loading battery luggage on the way you can the car battery adapter into the cigarette lighter socket of the vehicle plug. The adapter is appropriate for a 12-24v d.c. plant with negative mass.

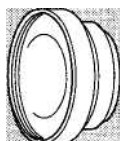
MC-100



Multiakku loader MC-100

The microprocessor-controlled MC-100 takes up up to four of battery luggage at the same time and reduces drastically the loading time (it can load the BP-711/BP-E77K in only 45 min.). In addition it implements an automatic charging/unloading/a new load cycle, with which a battery luggage can be refurbished, in order to manufacture its Leistung again fully.

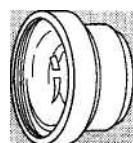
TL-46



Telekonverter TL-46

The Telekonverter extends the focal length of the objective by the factor 1,4 and amplifies in this way the zoom shot power of the objective. Zoom shot and autofocus work as used. • In the case of use of a professional monitor a Vignetierung can occur.

WD-46

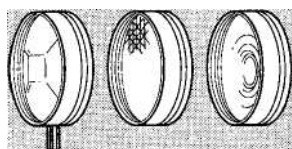


Wide angle converter WD-46

With this adapter the focal length of the objective is reduced by a factor of 0,7, which permits a wide angle perspective for Inien or Panoramaaufnahmen permitted — and nevertheless still the use of both zoom shot and autofocus.

- In the case of use of a professional monitor one can Occur to Vignetierung.

FS-46



Filter sentence FS-46

Three special effect filters for creative Videofilme contain: a Mehrf "cl> prism, an asterisk filter and a zoom shot Spotfilter.

- When using Spezialfiltern the autofocus function switch off.
- In the case of use of a professional monitor one can Occur to Vignetierung.

FS-46Ü

Filter sentence FS-46U

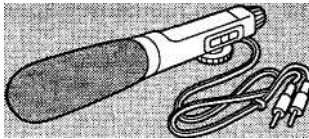
VL-20



Battery video light VL-20

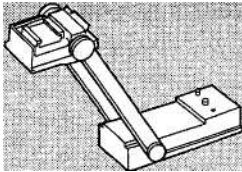
The compact and high performance video light can be used for receptions both inside and in the free one. Cable not necessarily — a battery luggage BP-711/BP-E77K fits in and is enough for 15 minutes operation. For longer receptions the battery luggage BP-E722/BP-E722D and BP-729 with a capacity can be used by approx. 35 minutes and/or 50 min. Adapter carrier SA-1 is necessary.

MM-200



Stereo Mischmikrofon MM-200

With the MM-200 the tone with brought in music (e.g. of Walkman), taken up over the microphone, can be mixed, in order to under-paint video receptions with interesting sound TRACK effects. Usable over adapter carrier SA-1. • The tone and Gleichstromkabel can be separated in each position over their length.

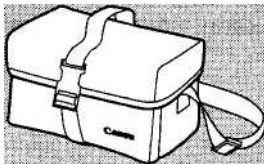


SA-1

Adapter carrier SA-1

Permits it to attach a video light or a microphone surely at the camera.

SC-900



Soft comfort bag SC-900

This light carrying bag always holds the Camcorder in range, without disturbing by high weight or bulky dimensions.

WS-20



Handschlaufe WS-20

Additional security offers with active receptions.

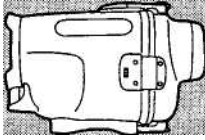
HC-910



System suit-case HC-910

This solid lockable suit-case offers safe and elegant protection for the Camcorder and accessories with transport and storage.

SK-10

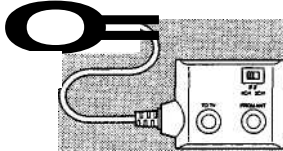


Sport bag/underwater housing SK-10

Make water resistant for your Camcorder, while you retain the most important controller possibilities at the same time. For active receptions in holidays at the beach or on ski runways.

- The sport bag can also under water up to a depth of 3 m are used. For safety reasons it is in such a way designed, that it swims; therefore it is best for receptions in that Proximity of the water surface suitably.
- Use for inserting the Camcorders into the sport housing It the mounting plate B and the guidance marking 3.

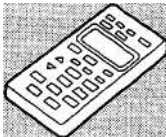
RU-100



HF-unit RU-100

This separated available transducers permits the connector of the Camcorders to the antenna socket of TV-equipment. It particularly represents with journeys a useful accessory, since it makes it possible to attach the Camcorder to the television in the hotel room.

VE-100



Video editor VE-100

This convenient editor steers the Camcorder and a video recorder at the same time, in order to permit fast and akkuratates cutting. He can be attached not only over one tt (LANC) socket but also be learned the infrared expensive signals of most video recorders.



Only video accessories with this indication are original accessories of Canon. We recommend, for your CAN on video equipment accessories of Canon or products, which carry this indication.

Caution measures and care

Caution measures

High temperatures and high air humidity avoid.

- The Camcorder e.g. not on are called days in one closed motor vehicle to lie leave.
- To heat radiation of video lights pay attention.
- The Camcorder not in areas with higher Air humidity bring.

Sudden variations in temperature avoid.

- If the equipment suddenly from a cold to one , can fitting brings themselves to warm place on form for internal parts and at the objective (see "Condensation", P. 47).

The objective or the Sucher on strong sources of light does not reset.

- The objective never toward the sun do not direct, and longer time immovably on a very bright motive point leave.
- This particularly applies, if the Camcorder on one Stand is attached.

Strong electromagnetic fields avoid.

- Not the equipment in close proximity to sources of strong electromagnetic fields use, as for instance Television stations, portable radios, or other devices, the electromagnetic fields produce. Thus grasses can or also permanent damage to the Camcorder caused become.

The Camcorder against rains and wetness/sand protect.

- A rain protection use, if in easy Rain or fog to be taken up is.
- If water penetrates into the equipment, the danger exists from electrical impacts — you hand the equipment in such a way fast as possible with the customer service for examination

The objective protect.

- Sand and dust can do the objective and that Camcorder damage — are you particularly on windy days carefully.

The Camcorder gently treat.

- By vibrations or impacts damage can are caused.
- Carry for the Camcorder in no case at the Sucher.

To correct adjustment of the Camcorders pay attention.

- Do not place to the Camcorder with operation on that Head; keep it as horizontal as possible. If that Camcorder with inserted cartridge on the side is put or on the head placed, can it through

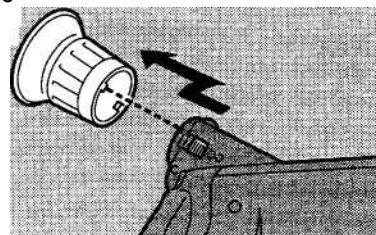
The Camcorder never take apart.

- With interferences inside the Camcorders the danger of electrical impacts does not exist — if the Camcorder works correctly, must it with the customer service to the repair be submitted.

Care

Sucher

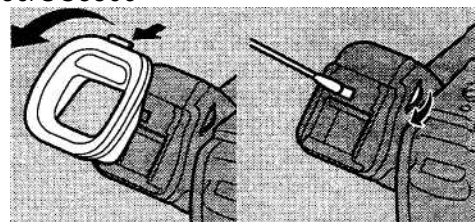
UC800/UC5000



Use a blister brush for cleaning the Sucherbildschirms.

Remove first the eyepiece: The release switch press and hold, the Sucher against the clockwise direction turn pull out and take off. For attachment set the marking at the Sucher with the marking at the basis in the clockwise direction turn and up to engaging imprint.

UC850/UC5500



- Clean the Sucherschirm with a blister brush or a dry Wattestäbchen.

Camcordergehäuse and objective

- A soft, dry rag for cleaning of the Housing and objective use. Never chemically cloths or volatile treated Cleaning agents as for instance turpentine use

Video heads

- The video heads only clean, if necessary. If possible, a cleaning cartridge of the type Canon CC 8 use.
- No wet working cleaning cartridges use, since these damage can cause.

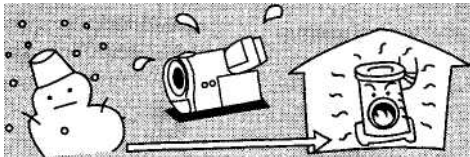
Storage

If the Camcorder longer time is not to be used, at a dry and dust free place to store, where the temperature does not exceed 30°C. After the storage the individual operating egg pension and the function of the Camcorders examine, in order to guarantee that everything duly work-vainly

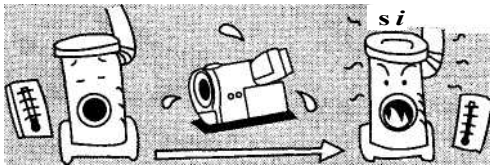
Condensation

If the Camcorder is brought by a cold to a warm place, small water droplets can form on and in the equipment. If the Camcorder is used despite existing condensation, the equipment and/or the video tape recording can be damaged.

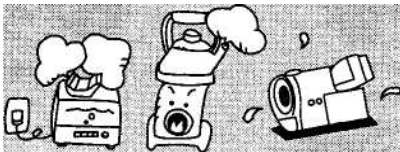
Condensation can occur, if:



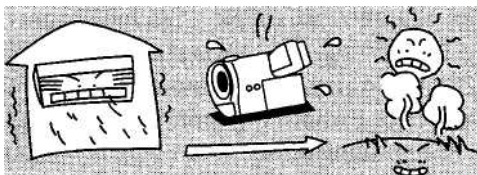
The Camcorder is brought from a cold to a warm place.



A cold area is fast heated.



The Camcorder in a damp area is kept.



The Camcorder from an area is brought with air conditioning system to a warm place with high air humidity.

Preventing measures

- Be to the Camcorder into a plastic bag, before you bring it to a warm place, at which on the formation from condensate to to be counted are. Wait, until the equipment of the ambient temperature adapted, before you take it from the bag.

When occurrence condensation:

- The operational status indicator flashes, and the SI-marking flashes in the Sucher. If a cartridge in the equipment, stops it is inserted automatically, and EJECTA flashes in the Sucher.
- Sometimes the equipment identifies the presence of fitting not immediately — those Kondensationswamung appears then only 10 until 15 minutes after the education of Condensation in the Suchermonitor.
- If condensation is identified, none can Video cassette to be inserted.

Which must be done:

- Immediately take the video cassette from the equipment, the cartridge subject open and for the Camcorder switch off.
- The equipment up to evaporating the condensation leave untouched at a dry place. Also after the condensation warning no more flashes, still at least 1 hour waits, before the Camcorder is again used.

Use abroad

Sources of working current

- They know the compact power pack to operation of the Camcorders and for loading that of battery luggage use in all countries, where those Netzspspannung between 100 and 240 V Alternating current with 50/60 Hertz amounts to. Details over plug adapters for use abroad experience with your Canon or electrical Specialist dealer.

Television play-back

- The receptions can always in the Sucher the Camcorders will show, connector at televisions is however possible only if these correspond to the PAL standard. PAL becomes into that the following countries uses:
Algeria, Australia, Bangladesh, Belgium, Brunei, China, Denmark, Germany, Finland, Great Britain, Hong Kong, India, Indonesia, Ireland, Iceland, Italy, Yemen, Jordan, Qatar, Kenya, Kuwait, Länder of the former Yugoslavia, Liberia, Malaysia, Malta, Mozambique, New Zealand, the Netherlands, North Korea, Norway, Oman, Austria, Pakistan, Portugal, Zambia, Sweden, Switzerland, Sierra Leone, Singapore, Spain, Sri

Lanka,
a,
South
Africa
,
Swaz
iland,
Tanz
ania,
Thail
and,
Turke
y,
Ugan
da,
comb
ines
Arab
emira
tes.



Fault finding

Go through with fault finding first the following check list, if problems with the Camcorder are present. Possible causes for interferences are indicated by each symptom. Open for closer information the indicated side up.

Examine all connectors, if you use the Camcorder with a television or a video recorder. If interference cannot be eliminated, turn please to your specialist dealer or the customer service.

B anything does not happen, if I press the keys.

- They did not switch the Camcorder on (S. 6, 13).
- They did not insert a cartridge, or that Delete protection slidegate valve is set to delete protection (S.11).
- The tape end is reached.
- The battery luggage is exhausted or not correct attached (P. 9.10).
- They must another reception program for Select use of this function (P. 24).

B of the Camcorder switches off from alone.

- The Camcorder became longer than approx. five minutes in reception break operation calmly (P. 6).
- The battery luggage is exhausted (P. 9.10).

B the Start/Stop pushbutton is ineffective.

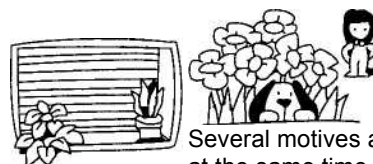
- The Programmwähler is not for the reception a program adjusted. (P. 24)
- The STANDBY cover is closed (P. 6).
- It is not inserted a video cassette, or that Delete protection of the video cassette is activated (S.11).
- The tape end is reached.

B no picture in the Sucher.

- The Programmwähler is not for the reception a program adjusted. (P. 24)
- The STANDBY cover is closed (P. 6).

9 the picture one does not focus.

The Camcorder is set to manual focusing. (P. 27) The eyepiece lens must be adjusted (P. 12) the objective is dirty (P. 46). Certain objects are not optimally suitable for autofocus.



Several motives at different distances at the same time in the picture

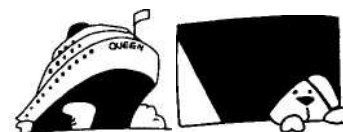


Motive horizon

Motives behind wet or dirty windowpanes Motive ft weak contrast (wie weisse walls)



Strongly reflecting motives (like automobiles with Schnell| move|liche motives shining lacquer finish)



Much darken motives

Night scenes



Awa cam

In these situations you obtain mostly better results with manual focusing (page 27). Focus on an object the fact that in same distance it is and stores you the focusing. With this adjusts! ng you film now your motive.

Fault finding

B ► - key is ineffective.

- The Programmwähler is not posed on PLAY (P. 13).
- No video cassette is inserted (P. 11).
- The tape end is reached.



B a bright strip appears in the picture.

With receptions in dark environment a bright strip (a so-called flag) in the picture can appear.

B the play-back picture is uneven.



- If the play-back appears uneven, clean the video heads (P. 46).

B no picture in the television, although the tape runs.

- The video heads must be cleaned (P. 46).
- The TV/video switch at the television is not posed on VIDEO (P. 14).
- The Camcorder becomes with attached HF Unit uses, but the video channel became not selected (P. 16).

B the infrared remote maintenance does not work.

- The remote maintenance sensor is switched off. (P. 18).

B the reception control light does not flash.

- It is switched off. (P. 18).

B the control light flashes.

- The Sucheranzeigen examines (P. 50.)

B bubbles are visible in the objective.

- A rare feature, which can occur, if the Camcorder at places with very low Air pressure is used, as e.g. in one Airplane. The blisters disappear within of approx. 1 week, after the Camcorder again normal atmospheric pressure is suspended.

B operational disturbances

- External electromagnetic interferences can temporary malfunctions of the Microprocessor of the Camcorders cause. If e.g. coincidental letters in the Sucher appear or normal operation, once those is interrupted Source of working current (and if required also the back-up battery) remove and again begin.

B the cut function does not work, or B I tried to use the Camcorder for the controlling of the video recorder cannot however not the correct attitude find. (P. 33)

- Remove all cables, stretcher loop and other things from the path of rays between Sensory control of the Camcorders and Infrarotempfänger of the video recorder. (P. 32)
- The Camcorder in such a way shift that it in that correct position is, around infrared signals to Sensor of the video recorder to send (P. 32).
- To the avoidance of interferences, no different Infrared price increases use during that automatic transferring function.
- It is unusual, but becomes possible in Video recorder uses, not with that automatic transferring function one steers. In this case you use to transfer "Simple transfer on a video recorder" (P. 40).

B the START function does not work and the display flashes.

- The flashing range in the display reset. Guarantee that none "CUT in" or "CUT out" Intersection in the first or last 10 Seconds of the tape is set. (P. 34)

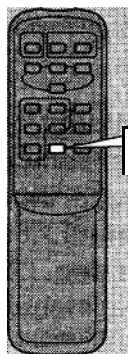
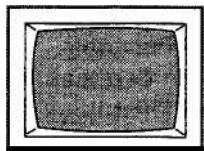
B the scenes with transferring to the video recorder begin or end in incorrect positions.

- Examine whether "CUT in" and "CUT out" intersections are correctly input. (P. 36)
- Dependant on different circumstances and it can seem to the used tape, that the attitude so precisely is not how wished.

B the automatic Überspeilfunktion does not work always.

- Examine whether the infrared price increase that Video recorder correctly steers and/or programmiert became. (P. 33)

Sucheranzeigen



ON
SCREEN

r

and backwards (P. 30)

Play-back (P. 13) _{MI} fixed

image play-back (P. 13)

** ■) forward-winding (P. 13)

Press the DATE key at the announcement of date and time on an attached television. The title key press, in order to see a title. These displays are noted in such a way, how they appear in the screen.

The key ON SCREEN at the infrared remote maintenance press, in order to see other Sucheranzeigen in the television picture. These disappear with beginning of the reception of the screen.

They can use the function ON SCREEN also over the Custom key user keys.

refers to a flashing display.

2:35 MI Date and time indicator
18.OCT.1997 (S.21)

Date and time were not input.
This display is noted not with.
(P. 21)

BON VGYAGE

Title (P. 22)

BREAK Reception break mode
(S.6)

Reception (P. 6)

REC

Reception browsing forward

SPORT
POSTRAIT
SP0TU0HT
SAKD&SNOW

Quick-motion apparatus play-
 back or still fast browsing in
 backwards direction (P. 13)

STOP | The tape operation is
 stopped (S.13)

Camcorder outputs the video
 cassette (P. 11)

Protective mechanism
 activates. The cartridge take,
 and the Camcorder switch off.
 Again switch on, and the
 cartridge insert.

No or secured video
 cassette inserted (S.11)

Tape end reaches

Tape reversal, forward and
 backwards (P. 13)

Battery luggage nearly
 exhausts (P. 8, 9)

The back-up battery is nearly
 exhausted or not correctly
 assigned (P. 10)

Zoom shot display (P.

17) Camera menu (P.

19)

MENU
 ► CUSTOM KEY INFO-OK
 CUSTOM KEY 1 "FAOE
 CUSTOM KEY 2 "BLC
 SENSOR " " ON
 SHUTTER " " ON
 AUTO FOCUS " " ON
 FLEXIZONE CONT. " "

AVTO DATE... 12:00 AH

MENU
 ► CUSTOM KEY INFO-ON
 CUSTOM KEY "FAOE
 CUSTOM KEY 2 "BLC
 SENSOR " " ON

PLAY menu (P. 19)

MENU "

► RECORD SELECTOR A
 CUT fiber plastic ADJUST.-
 1.5
 CBI OUT A1MBST.- + il,l
 SENSOR. " " ON

EDIT menu (P. 19)

Vertical image control
 eingeschaltet-UC800/UC850 (P.

17)

The Fernbedienungssensor
 is switched off. (P. 18)

The control light is
 switched off. (P. 18)

The control light and the
 remote maintenance sensor
 are switched off. (P. 18)

Special one
 Exposure mechanism
 programs (P. 24)

Sucheranzeigen

1.FADE,
Z:BLC

On Custom key user keys
programmed functions (P. 20)

IAFED

Autofocus is switched off
(S.27)



FlexiZone supporting frame
(P. 26, 28)

EXP.LOCK BLC

FlexiZone
Belichtungsautomatik (P. 28)

1000

Back light compensation (P.
28)

Manual verschlusszeit
(1/1000 s in this example) (P.
29)

Automatic Schittfunktion

(EDIT TOTAL 0:17:18 STOP
CUT-IN CUT-OUT 0:37:54
0:01:21 * 0:04:05 OS 0
15 OS * 0:18:20

Select a scene (SET
function) (P. 34)

► 95 OJIE HEVEW SIHH CLEM

EDIT TOTAL 0:18:47 STOP
CUT-IN CUT-OUT 0:40:03
0:01:20 * 8:04:05
0:15:03 * 0:18:20
0:20:15 * 8:30:12
0:35:47 * 0:38:15

Preview (preview) function
(P. 35)

" SET BELETE E332 STMT CIEff

EDIT TOTAL 0:19:47 STOP
CUT-IN CUT-OUT 0:40:03
0:01:20 * 8:04:05
0:15:03 * 0:18:20
0:20:15 * 8:30:32
0:35:47 * 0:38:15

Transfer on video
recorders (starting
function) (P. 35)

SET BELETE

EDIT TOTAL 0:19:47 STOP
CUT-IN CUT-OUT 0:40:03
0:01:20 * 8:04:05
0:15:03 * 0:18:20
0:20:15 * 8:30:32
0:35:47 * 0:38:15

Reset the entire display
(CLEARS function) (P. 38)

OFFER TO mm snm EE\$

EDIT TOTAL 0:19:47 STOP
CUT in CUT-OUT 0:48:03
0:01:11 * 0:04:05
0:15:03 * 0:18:20
0:20:15 * 8:30:32
0:35:47 * 0:38:15

Reset a scene (DELETES
function) (P. 38)

" -SET 5TMT CLEM

EDIT TOTAL 8:18:47 STOP
0:15:03 * 0:18:20
0:20:15 * 0:30:32
0:35:47 * 0:38:15

Scenes arrange newly (P.
39)

33 ttm neta sp "r
CIEM

Condensation warning
(S.47)

Tape counter

1:23:45

The tape counter shows also the approximate tape
operation time during browsing and play-back on
— in this example 1 hour, 23 minutes and 45
seconds. The tape counter is reset, if a video
cassette is inserted or the key COUNTER RESET
is pressed (P. 13).

Reception memory

0SEC

10SEC

The Camcorder begins the counting from 0
SECONDS to 10 SECONDS, if the reception
begins. This function is to serve as an assistance,
in order not to make scenes too short for pleasant
regarding and light cuts. Try to take up at least
always full 10 seconds long.

N

O
I

o

Designations of the controls

Forward-winding
Reception lookup key <REC SEARCH
(S.30)
Reception search test {REC SEARCH
-} reception test key {©} (P. 30)
► Wiedergabetaste (P. 13)
ON/off key for
Vertical image control
(P. 17) (UC800/UC850)
■ stop key (P. 13)
Titeitaste () (P. 22)

II tracing branch (P. 13)
Date key (DATE) (P. 21)
branch (P. 13)
Objectively (P. 46)

Microphone (P. 41)

unit

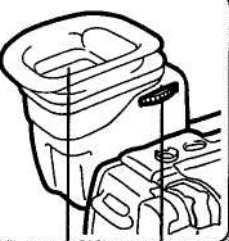
Progra
2
o
1
M N

Stand thread (P. 41)

UC800/UC5000

Sucher Scharfeinstelirad
(S-12);
Sucher (P. 12,46)
User key 2
Search he sharp steep
ring (S.12)

UC850/UC5500



Sucher
(P. 12,46)

(CUSTOMKey2)

(S.20)

User key 1 - i (CUSTOM
key 1) (P. 20)

Battery luggage (P. 8-10)

o

width

PLAY
Funktionsan-
zeige
(P. 13);

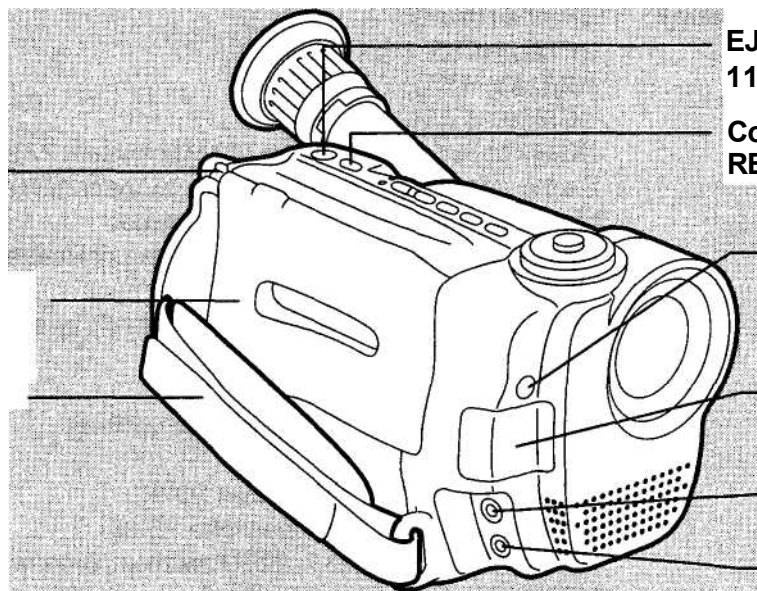
Camera
funktion
display
(S.6)

BATTERY
EJECT
key
(S.8) /

B
a
c
k
-
u
p
b
a
t
t
e
r
y
r
e
t
a
i
n
e
r

Zoom shot
automatic
controller
(S.17)

IAiiii



EJECT key & (S-11)

Counter key (COUNTER RESET) (P. 13)

Reception control light (P. 18)

Remote maintenance sensor (P. 18)

Microphone socket MIC (P. 41)

Jack headset-phone QPHONES (S.41)

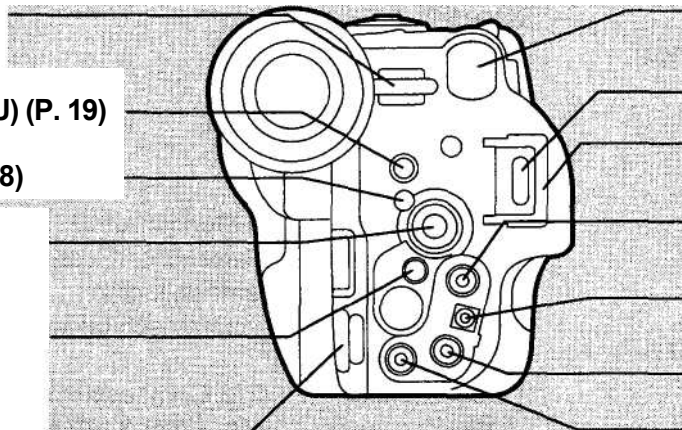
Stretcher belt eye (S.12)

Menu key (MENU) (P. 19)

transmitter (P. 18)

FlexiZone automatic controller (P. 21,22,31)

Stretcher belt eye (S.12)



FLEXIZONE AE-key (S.28, 31)

Start/stop key (P. 6)

STANDBY cover (S.6)

Audio socket (AUDIO) (L) (S.14)

DC voltage socket:

Video socket (P. 14);

Audio socket (AUDIO) (R) (S.14);

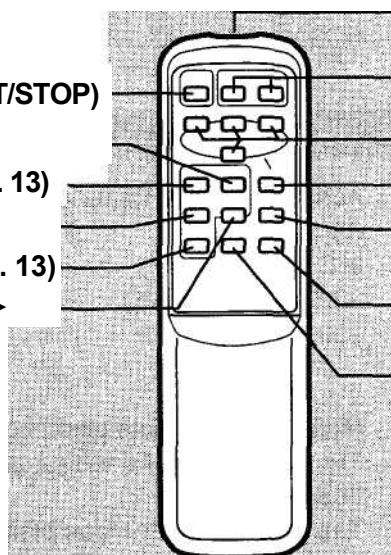
Start/Stop pushbutton (START/STOP) (P. 6)

Wiedergabetaste (PLAY ►) (P. 13)

rewind key (REW ®) (P. 13)

tracing branch (BREAK II) (P. 13)

forward-winding branch (FF ►)



Transmitter (P. 18)

zoom shot keys (P. 17)

Control tests (P. 34)

Implementing branch (EXECUTE) (P. 31, 34)

Counter moving ELT key \ i (COUNTER RESET) (P. 13,).

Tape return key (TAPE RETURN) (P. 13);

Biidschirmanzeigetaste; (ON SCREEN) (P. 50)

N

(0
F
F

(D

Technical data

UC800/UC850/UG5000/UC5500

Current supply (nominal voltage):	6 V direct current
Power consumption:	UC800/UC850: 6.6 W UC5000: 5.5 W UC5500: 5.8 W
Television standard:	CCIR standard (625 lines, 50 frames), PAL Farbsignal
Video reception system:	2 rotary heads with diagonal trace recording Luminanzsignal: FM azimuth reception Color signal: Transported subcarrier with phase shift (Video-8 video standard)
Audio reception system:	Frequency-multiplex with video signal by two rotating heads (2 channels)
Image sensor:	V4-Z011 CCD, 320,000 pixels
Tape format:	8-mm-Band with metal particle/coating
Tape speed:	20.05 mm/s
Maximum recording time:	90 minutes with video cassettes P5-90
Pre/rewinding time:	Approx. 6 minutes (with video cassette P5-90)
Objectively:	UC800/UC850: f/1,6-3,7,22x engine zoom shot, focal length 3.9-85.8 mm;
Filter diameter:	UC5000/UC5500: f/1,6-3,6,20x engine zoom shot, focal length 4-80
Focusing system:	mm; 46 mm
Shortest reception distance:	TTL Autofocus with FlexiZone Autofokus, manual one Focusing Wide angle: 1 cm
Minimum lighting:	Tele: 80 cm
Recommended lighting:	Middle zoom shot position: 1 m
Electronic Sucher:	3 lx Over 100 lx
Microphone:	UC800/UC5000: Sign inch mono chrome picture tube
Input level:	UC850/UC5500: LCD Farbsucher (liquid crystal display); 0.55 inch
Impedance:	Stereo Elektretkondensatormikrofon
Output level:	- 58 dBV/600 ohms, asymmetrically (external microphone) Over 6 kOhm
Operating temperature range:	(video buchse) 1 Vs-s/75 ohms, asymmetrically;
Dimensions:	(Audio sockets) - 10 dBV/under 3 kOhm, asymmetrically 0°C to 40°C
Weight:	UC800/UC5000: 105 x 112 x 206 mm UC850/UC5500: 106 x 109 x 184 mm UC800/UC850: 770 g without battery luggage UC5000/UC5500: 730 g without battery luggage

Battery luggage BP-711

Battery luggage: g nominal	Rechargeable NiCd battery
voltage: § operating	6V
temperature range: i	0°C to 40°C
dimensions: l weight:	22.5 x 47 x 90 mm 150 g

Mass and weights are
approximate values.
For mistakes and omissions no
responsibility becomes
taken over.
Technical changes remain
reserving.

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